# je Kliming Vournal,

# FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Novespaper and for Transmission Abroad,]

No. 2454.—Vol. LII.

LONDON, SATURDAY, SEPTEMBER 2, 1882.

MR. JAMES H. CROFTS, STOCK AND SHARE BROKER AND MINING SHARE DEALER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842.

Business transacted in all descriptions of Mining Stocks and Shares (British and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Railways, Insurance, Assurance, Telegraph, Tramway, Shipping, Canal, Gas, Water, and Dock Shares, and all Miscellaneous Shares.

Business negociated in Stocks and Shares not having a general market

nue.

Every Friday a general and reliable List issued (a copy of hich will be forwarded on application), containing closing prices of the week.

MINES INSPECTED.

BANKERS: CITY BANK, LONDON—SOUTH CORNWALL BANK, ST. AUSTRLL.

## SPECIAL DEALINGS in the following, or part:—

## 60 Almada, 11s. &d.

## 20 Bedford United, £2 7

## 20 Bertard United, £2 7

## 20 Bratsberg, 38s.

## 70 Javail, 4s. 9d.

## 70 Devon Con., £5½.

## 70 Devon C SPECIAL DEALINGS in the following, or part:— 60 Almada, 11s. 6d. 100 Herodsfoot, 4s. 6d.,

ON.

50 Hoover Hill, 48, 3d. 50 Fotosi, 11s. 20 Wheal Kitty, 22.

"." SHARES SOLD FOR FORWARD DELIVERY (ONE, TWO, OR THREE MONTHS) ON DEPOSIT OF TWENTY PER CENT.

"." SPECIAL BUSINESS at CLOSE PRICES in all Market TIN, COPPER and LEAD SHARES.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

ELECTRIC LIGHT SHARES — SPECIAL BUSINESS.

Shares sold for cash, account, or for forward delivery (one, two, or three

months) on deposit of 20 per cent.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

RAILWAYS — FOREIGN BONDS — SPECIAL BUSINESS.
Fortnighly Accounts opened on receipt of the usual cover.
JAMES H. CROFTS, 1, FINCH LANE, LONDON.

A MERICAN AND CANADIAN STOCKS AND SHARES-SPECIAL BUSINESS.

Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

OPTIONS, SINGLE or DOUBLE, dealt in at close market JAMES H. CROFTS, 1, FINCH LANE, LONDON.

NDIAN GOLD MINES.—SPECIAL BUSINESS in:—
Indian Phœnix.
Devala Moyar.
Devala Central.
Indian Trevelyan.
Indian Consolidated.
Mysore.

Rhodes Reef.
Bouth-East Wynaad.
Tambracherry.
Wynaad Perseverance.

Devala Moyar.

Devala Central.

Devala Central.

Indian Kingston.

Indian Trevelyan.

Mysore.

At CLOSE MARKET PRICES, free of commission.

\*\* Reliable information given on any of the above. A daily price list issued giving closing quotations.

\*\* PECIAL BUSINESS in La Plata, Rio Tinto, Frontino and Bolivia, Potosi, Chile, Nouveau Monde, Ruby, Richanond.

\*\* SHARES IN THE ABOVE INDIAN OR OTHER GOLD AND SILVER MINES 60LD FOR FORWARD DELIVERY ONE, TWO, OR THREE MONTHS ON DEPOSIT OF TWENTY PER CENT.

JAMES H. CROFTS, 1. FINCH LANE, LONDON. JAMES H. CROFTS, 1, FINCH LANE, LONDON. ESTABLISHED 1842.

MR. W. H. BUMPUS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER 44, THREADNEEDLE STREET, LONDON, E C. ESTABLISHED 1867.

BUSINESS transacted in STOCK EXCHANGE SECURITIES and MISCELLAREOUS SHARES of every description.

RAILWAYS, BANKS, FOREIGN and OLOXIAL BONDS.

TRAMWAYS, TELEGRAPHS, and all the LEADING INVESTMENTS.

Accounts opened for the Fortinghtly Settlement

A List of Investments free on application.

Mr. BUMPUS has SPECIAL BUSINESS in the undermentioned:—

60 Almada, 12s.

20 Glenroy.

50 Bredsterg.

50 Gledrod United, 22/3

50 Bredsterg.

50 Great Holway, 25%.

50 Great Holway, 25%.

50 Gawton Copper, 56, 6d.

50 Carnaryon Copper, 56, 6d.

50 Carnaryon Copper, 56, 6d.

50 Conlapo, 23 12s. 6d.

50 Colorado, 31s. 6d.

50 Conlapo, 23 12s. 6d.

50 Colorado, 31s. 6d.

50 Colorado, 31s. 6d.

50 Colorado, 31s. 6d.

50 Colorado, 13s. 6d.

100 Indian Trevelyan,

70 Kapanga, 16s.

100 Lorado, 15s.

100 Lorado, 1

Mr. BUMPUS has SPEC 60 Almada, 12s. 100 Bwich United. 50 Bedford United, £2% 50 Bratsberg. 100 Carnaryon Copper, 6s. 8d.

SPECIAL BUSINESS, at close prices, in the SHARES of all the principal HOME and FOREIGN MINES.

IMPORTANT TO INVESTORS.—Shares in SOUND DIVIDEND and I GRESSIVE MINES (particularly TIN and COPPER) should be bought at seat prices, as many of them are likely to have a considerable rise within neat law months. sent prices, as many of them are likely to have a considerable rise within the next few months.

Mr. Burnus devotes special attention to these Securities, and is in a position to afford reliable information and advice to intending investors and others.

WHEAL GRENVILLE and WEST GODOLPHIN shares are recommende

for investment at present prices.

WILLIAM HENRY BUMPUS, SWORN BROKER.

OFFICES: 44, THREADNEEDLE STREET, LONDON, E.C.

ESTABLISHED 1867.

MESSRS. ENDEAN AND CO., STOCK AND SHARE DEALERS, \$5, GRACECHURCH STREET, LONDON, E.C. ESTABLISHED 1861.

Bankers: London and Westminster, Lothbury, E.C.

ESTABLISHED 1868.

MESSRS. CUNLIFFE, ENTWISLE, AND CO., FINANCIALISTS,
MINING AND CONSULTING ENGINEERS,
MINERAL ASSAYERS,
STOCK AND SHARE BROKERS,
77, BLOOMSBURY, OXFORD STREET; AND 2, UPPER BROOK STREET,
MANCHESTEE.
Bankers: Manchester and Oldham Bank (Limited),
Pall Mail, Manchester.

RRITISH AND FOREIGN MINING OFFICES. MESSES. PETER WATSON AND CO., AUSTIN FRIARS, OLD BROAD STREET, LONDON, E.C. BANKERS: THE ALLIANCE BANK (Limited).

MESSRS. PETER WATSON AND CO.'S BRITISH AND FOREIGN MONTHLY MINING NEWS -STOCK AND SHARE INVESTMENT NOTES - MINES, MINERALS, AND METAL MARKETS - SHARE LIST, No. 845, Vol. XVII., for SEPTEMBER month, is now ready, and will be sent to customers on application.

Annual Subscription...... 5s. | Single Copy......

MESSES. PETER WATSON AND CO., 18, AUSTIN FRIARS, E.C.

M R. A L F R E D E. COULT BRITISH and FOREIGN STOCKS and SHARES of EVERY DESCRIPTION.
(FROM 76, OLD BROAD STREET)

9, OLD BROAD STREET, LONDON.

ESTABLISHED 1853.

9, OLD BROAD STREET, LONDON.

STOCKS AND SHARES FOR SALE.

Mr. Alfred E. Cooke can SELL the following lots (or any smaller number of shares) to immediate applicants at prices annexed, free of commission, where prices are not inserted, the market price of the day will be taken, or offers may be made:

10 Bratsberg Cop., £1 17s

80 Indian Consolidated, 7s, 6d.

80 Chile Gold, 13s.

80 Chile Gold, 13s.

80 Chile Gold, 13s.

80 Chile Gold, 13s.

80 Canadian Goid.

20 Leadhills, £3 8s. 9d.

20 Canadian Copper, 50.

10 Drakewalls Tin and Copper, 10s.

10 Devon Friend, 4s. 3d 30 Mounts Bay Copper 100 Drakewalls Tin and Copper, 2s. 6d.

80 E. Blue Hils Tin, 10s.

10 New Kitty Tin, £254.

20 Gast Rose Lead.

80 Copper, 2s. 6d.

80 E. Blue Hils Tin, 10s.

10 Nowe West Caradon

Copper, 2s. 6d.

100 Drakewalls Tin and Copper, 2s. 6d.

100 Drakewalls Tin, 2s.

100 Now West Caradon

Copper, 2s. 6d.

100 Now West Caradon

Copper, 2s. 6d.

100 Now West Caradon

Copper, 2s. 6d.

100 Now West Caradon

100 Sortridge Copper and Tin, 2s.

100 North Blue Hills, 3s 6

100 Herodsfoot, 5s.

100 Now Herodsfoot, 5s.

100 North Blue Hills, 3s 6

100 Herodsfoot, 5s.

100 Potosi Gold, 10s. 6d.

100 Herodsfoot, 5s.

100 Potosi Gold, 10s. 6d.

100 Jone Copper, 8s.

Many of the above snares can be sold for settlement by arrangement at the end of October account on payment of 20 per cent, deposit Shares not found in the above list may be purchased on application.

MR. ALFRED E. COOKE is a BUYER of shares in the following Mines:—

ALMADA.

BRATABERG.

EAST ROSE.

INDIAN CONSOLIDATED.

LA PLATA.

SELLERS must please state LOWEST POSSIBLE PRICE.

MR. ALFRED E. COOKE an transact business of ther as BUYER or SELLER in THE ABOVE and IN ALL OTHER MINEs, also in RAILWAYS, ORGANOS.

SHOUNTS BAY.

ORGANOS.

RICHMOND.

TANKERVILLE.

MR. ALFRED E. COOKE an transact business of ther as BUYER or SELLER in THE ABOVE and LETTERS receive immediate attention. All shares currently dealt in, bought and sold, free of commission.

SPECULATIVE ACCO

ALFRED E COOKE, 9, OLD BROAD STREET, LONDON.
(Opposite the Stock Exchange, with which the offices are in DIRECT TELEGRAPHIC COMMUNICATION.)

TELEGRAPHIC COMMUNICATION.)

R. JAMES
STOCKER, STOCKBROKER,
2, CROWN COURT, TRREADNEEDLE STREET, LONDON, E.C.
Has special business in the following for cash or settlement by arrangmeent:—
Gold Cosst, 23s.
Chile Gold, 12s. 6d.
Collo Gold, 12s. 6d.
Consolidated 4s. 9d.
Consolidated 1s., 13s 9
Ciliters, 235s.
Don Pedro, 5s. 3d.
Devon Friendship, 4s. 3
Devon Friendship, 4s. 3
Devola Moyar, 22s. 6d.
Devala Moyar, 22s. 6d.
Devala Central, 17s. 6d.
Eberhardt.
East Blue Hills, 9s. 6d.
Parys Corporation, 8s.

BANKERS: LONDON AND WESTMINSTER.

BANKERS: LONDON AND WESTMINSTER. RANVILLE SHARP, STOCK AND SHARE DEALER,

32, QUEEN VICTORIA STREET, LONDON, E.C.,
Recommends the purchase of shares in the
EAST CHIVERTON SILVER-LEAD MINE, and WHEAL JANE TIN MINE
Full particulars on application.

BANKERS: LONDON AND WESTMINSTER, London, E.C.

ORACE J. TAYLOR, STOCK AND SHARE DEALER,
38, GREAT ST. HELEN'S, BISHOPSGATE STREET, LONDON, B.C.,
BUYS and SELLS every description of STOCKS and SHARES at the closest
market prices of the day, either by telegram or letter. All enquiries promptly replied to. BANKERS: The CENTRAL BANK OF LONDON.

A BBOTT AND CO,, STOCK AND SHARE BROKERS,

JOHN B. REYNOLDS, STOCK AND SHARE DEALER, 37, WALBROOK, LONDON, E.C. BANKERS: LONDON JOINT-STOOK, Princes-street.

Mr. Reynolds transacts business in all descriptions of Mining Property at net prices. He is in a position to obtain reliable information respecting mining shares, and advise upon such information on the receipt of a fee of 21s. Re spares neither time nor expense in securing for his numerous correspondents opportunities for obtaining the best investments. Fee allowed if business results. Mr. Reynolds calls attention to the fact of his having persistently recommended West Kitty shares ever since they stood at 20s. each, and that when they stood at 10s. he cautioned holders, and gave his opinion that they would reach £15 this year. Others say they will reach £20.

Mr. REYNOLDS, at the request of Correspondents, has resumed, with permission of the Editor, his weekly notice in this issue of Mining Journal, p. 1075.

of the Editor, his weekly notice in this issue of MINING JOHRALD, 1075.

WEST KITTY MINE AND TREVAUNANCE UNITED.

Reports of these important meetings appear in the Journal of Aug. 5, pages 953 and 959, and should be read by all interested and by the public generally.

NEW KITTY AND TREVAUNANCE.

Lavestors should strictly investigate the merits of these from reliable authority, and act accordingly. New Kitty meeting is reported on page 1074.

WHEAL COATES.

Every shareholder should watch this concern as if its prosperity depended upon his exertions. Highly important meeting reported in to-day's Journal on page 1074.

THE "DIFFERENTIAL" PUMPING ENGINE (DAVEY'S PATENT),

DRAINING MINES, WATER SUPPLY OF TOWNS, IRRIGATION, SUPPLYING DOCKS, PUMPING SEWAGE, and GENERAL PUMPING PURPOSES.

HATHORN, DAVEY, AND CO., LEEDS.

HATHORN, DAVRY, and Co. have Patterns of "Differential" Engines of all sizes, from 5 to 500-herse power, and have facilities for supplying very power ful Engines and Pumps at a short notice.

MR. CHARLES THOMAS, MINING AGENT, STOCK AND SHARE DEALER, 3, GREAT ST. RELEN'S, LONDON, E.C.

MR. ALFRED THOMAS,
MINING AGENT, AND STOCK AND SHARE DEALER,
10, COLEMAN STREET, LONDON, S.C.
WHEAL SISTERS.—Wanted to Purchase, Shares herein. Sellers please state
lowest price and number for sale.

SAFE DIVIDEND INVESTMENTS IN STOCKS AND SHARES PAYING 4 TO 8 AND 15 PER CENT. PER ANNUM ON OUTLAY.

SHARP'S INVESTMENT CIRCULAR.

THE SEPTEMBER EDITION (post free).

SHOULD BE CONSULTED BY INVESTORS AND SHAREHOLDERS IN STOCKS AND SHARES OF EVERY MARKETABLE DESCRIPTION.

ENRY GOULD SHARP, STOCK AND SHARE BROKER, 21, THREADNEEDLE STREET, LONDON, E.C. ESTABLISHED 1852. Bankers—London and County Bank, Lombard-street, London, E.C.

THE CHEAPEST LEAD SHARES IN THE MARKET AT 58. PER SHARE.

THE CHEAPEST LEAD SHARES IN THE MARKET AT 5s, PER SHARE.

HERODS FOOT SILVER LEAD MINE,
ST. KEYNE, LISKEARD, CORNWALL

12,000 SHARES, 18s. PAID. PRICE 5s. TO 6s. PER SHARE.

H. GOULD SHARP advises the purchase of HERODSFOOT SHARES at present low price as a capital speculation. They have an important improvement in the 160 level north (see report).

PRESENT SALES OF SILVER-LEAD ORE, 90 TONS EVERY 2 MONTHS.
With a rise in lead and a small further output dividends would be resumed.

A MAF OF THE MINE FORWARDED (post free), SHOWING WORKING.
The present company is in full working, and sold about

214,300 WORTH OF SILVER-LEAD ORE SINCE 1879.
THE BUILDINGS AND MACHINERY. ENGINES, &c., COST £15,000.
They have an immense extent of lead ore ground unworked in the north part of the Mine for some 250 fathoms a length, and 65 fathoms in depth, excluding all other points of value.

Herodsfoot has been one of the richest and best dividend-paying Mines in Cornwall for silver-lead ore; it is still very productive, as sales of ore prove.

IN THE FORMER WORKING SHARES ROSE TO £52 EACH, AND £80,000 WAS PAID IN DIVIDENDS ON AN OUTLAY OF £8700.
Shares can be obtained for a few shillings, and may rise 1000 to 3000 per cent.

A SAFE DIVIDEND INVESTMENT.

A SAPE DIVIDEND INVESTMENT.

PH CE N I X
U N I T E D T I N M I N E S,
near LISKEARD CORNWALL.

12,000 SHARES, £6 PAID, PRICE £3 5s, to £3 10s, PER SHARE.

H. GOULD SHARP advises the purchase of PHCENIX UNITED at £3 5s.
each, at which price they are paying 9% per cent. per annum. This has been
one of the richest and most profitable mines in Cornwall.

£206, 400 HAS BEEN PAID IN DIVIDENDS.

The mine will work profitably for a generation to come. It has already worked
some 70 years, and given the above dividends. There is a great future for this
property. They have an immense extent of tin ground laid open and yet to be
laid open.

laid open.

THE BUILDINGS AND MACHINERY, ENGINES, &c., COST £70,000.

They are now selling over £40,000 worth of tin yearly. These sales will gradually and greatly increase, which will enable them to give large dividends. The dividend declared yesterday, 31st August, was 2s. per share for 16 weeks.

CHEAP SHARES-SAFE TO BUY-WILL RESUME DIVIDENDS IN 1883. WHEAL JANE (TIN) MINE, KEA, CORNWALL.

O R G A N O S GOLD 15,000 SHARES OF £1 BACH, LIMITED. 10,000 SHARES OF £I BACH, LIMITED.

I have advised the purchase for months past in my MONTHLY CIRCULARS at 20s. to 30s. per share for a CERTAIN RISB. In June last I advised them at £1, stating they would go to £3 or £4. My advice has proved correct. They are £3% to £4.

TO INVESTORS - CHEAP SHARES - WORTH BUYING.

NOTE .- BUSINESS IN ALL THESE MINES AT CLOSE PRICES.

HENRY GOULD SHARP, STOCK AND SHARE BROKER, 21, THREADNEEDLE STREET, E.O.—ESTABLISHED 1852. Bankers—London and County Bank, Lombard-street, London, E.C.

FERDINAND R. KIRK, STOCKBROKER, 5, BIRCHIN-LANE, LONDON, E.C.

Fortnightly Accounts opened in all Stock Exchange Securities on receipt of the usual cover.

BANKEES: LONDON AND WESTMINSTER, Lothbury.

M. B. E. J. BARTLETT, 30, GREAT ST. HELENS, LONDON Shares of every description.

MR. JOHN L. M. FRASER,

(Eighteen Years' experience at the Great Minera and other Mines.) Consulting Mining Engineer, &c Reports, Valuations, Surveys.

MINING PLANT, MACHINERY, STORES, AND MATERIALS at greatly reduced prices.

Shareholders' and Investors' Protection Agency. Full particulars on application.

First Charge Mortgage Debentures from 6 to 10 per cent., in sums of £15, £50 and £100 each, on good security.

# The Gold Amalgamating Company (Limited).

Incorporated under the Companies Acts, 1862 to 1880.

# CAPITAL £150,000, IN 150,000 SHARES OF £1 EACH,

Divided into 112,500 Ordinary Shares entitled to a Preferential Dividend of 10 per cent., and 37,500 Deferred Shares, fully paid-up, to be allotted to the Vendors in part payment of the Purchase Money.

# FIRST ISSUE OF 77,500 ORDINARY SHARES,

Payable 5s. on application, 10s. on allotment, and the balance as required, subject to two months' notice. In cases where no allotment is made the deposit will be returned in full.

#### DIRECTORS.

FREDERIC W. BROWNE, Esq. (Messrs. Browne and Wingrove), 30, Wood Street, Cheapside, E.C. BERNARD C. MOLLOY, Esq., M.P., Elm Court, Temple, E.C. STEWART PIXLEY, Esq., (Messrs. Pixley and Abell), 27, Old Broad Street, E.C. THOMAS KYNASTON WEIR, Esq. (Messrs. Henry Bath and Son), Gresham House, E.C. \*THOMAS ALLISON READWIN, Esq., F.G.S., M.M.S., 8, Bloomsbury Square, W.C.

\* This gentleman being interested with the vendors, will not join the board until after allotment.

LONDON—Messrs. MARTIN and CO., Lombard Street, E.C. DUBLIN-BANK OF IRELAND.

SOLICITORS.

Messrs. JOHNSONS, UPTON, BUDD, and ATKEY, 20, Austin Friars, E.C.

BROKERS.

LONDON-Messrs. ROGER MORTIMER, BENTHAM, and HARRINGTON, 2, Royal Exchange Buildings, E.C. DUBLIN—Messrs. WM. GEORGE DU BEDAT and SONS, 2 and 3, Foster Place.

AUDITORS.

Messrs, CHANDLER and PIXLEY, 15, Coleman Street, E.C.

Secretary (pro tem.) R. S. ARCHBOLD, Esq.

OFFICES.

DASHWOOD HOUSE, NEW BROAD STREET, E.C.

# PROSPECTUS.

The Company has for its objects the purchase and introduction into general use of an improved method of amalgamation (known as "The Readwin Process"), which is a secret mode of treating Quick-silver for amalgamation and an improved Apparatus (known as "The Britten-Readwin Pan"), patented at home and abroad as the "Ore Grinding and Amalgamating Machine," and also the purchase of The Greenwich Ore Reduction Works, situate at East Greenwich.

The results obtained by this process are:—I. The more economical treatment and perfect extraction of the amalgamable gold and silver from auriferous minerals, viz.:—

(a) From minerals containing free gold associated with arsenides, sulphides, tellurides, antimonides, &c.

(b) From low grade ores and tailings containing finely divided gold, float-gold, or both in quantities insufficient to pay for working by the ordinary methods.

II.—The economic concentration, after the extraction of the gold, of the metallic sulphides, &c., thus rendering them marketable, and more valuable.

III.—Safe-guarding the quicksilver and amalgamated-gold from

III .- Safe-guarding the quicksilver and amalgamated-gold from

theft.

In the first case (a), as is well known, the presence of arsenides, &c., frequently acts injuriously on the quicksilver, and causes it to sicken or flour so that much of the amalgamable gold passes away with the sickened or floured quicksilver, both being entirely lost. These derangements in many cases render the treatment of the ores wholly unprofitable; and, in other cases, even where profits are being realised, the returns are less than they ought to be in conse-

quence of the great loss both of quicksilver and gold.

In case (b) this process applies in a special manner to low grade ores and tailings, of which there are enormous quantities in gold

ores and tailings, of which there are enormous quantities in gold mining districts, and which are at present valueless.

The advantages of the process are—(1) That a comparatively small quantity of quicksilver is required; (2) that with ordinary care in operation the prepared quicksilver does not sicken or flour through the deleterious influence of arsenides, &c.; (3) that little or no quicksilver is lost; (4) that all the amalgamable gold is obtained. The value of the grinding and amalgamating machinery consists in its simplicity, cheapness, portability, durability, easiness of erection, and non-liability to get out of order; also in the extreme fineness of the grinding, and the spiral mode of trituration, which compels the float-gold and other finely divided gold to enter into a created vortex of water and to descend rapidly into active contact with the prepared quicksilver, by which it is quickly caught and saved, leaving the finely-ground mineral residues to pass away readily for concentration into a marketable condition.

The machines are designed with automatic feeders, and require only unskilled labour, whilst the amalgamating boxes are made inaccessible to all but the authorised Superintendent.

The peculiar action of the secret preparation in conjunction with the patented apparatus has been open to the inspection and criticism of the public for several months, and samples of auriferous ores from mearly all parts of the world have been submitted to the process with

unvarying success as to the non-derangement of the prepared quick-silver used in the operations.

Of the many trials made at the works at East Greenwich may be mentioned ores from various parts of India, Australia, Ceylon, the Brazils, Chili, the Equador, the United States, Canada, Nova Scotia,

Newfoundland, Spain, Portugal, North Wales, Cumada, Nova Scota, Newfoundland, Spain, Portugal, North Wales, Devonshire, Cornwall, Scotland, and Ireland.

The secret mode of preparing the quicksilver (which is in the possession of Mr. Readwin alone) will be entrusted by him to Trustees, two of the Directors of the Company (other than Mr. Readwin), who will personally manufacture and test it by actual trial. Upon their report the Board of Directors will decide definitely whether to complete the purchase

report the Board of Directors will decide definitely whether to complete the purchase.

All money subscribed will remain deposited with the Company's Bankers until the Directors are satisfied as to all points connected with the secret. Should they not be so satisfied, no allotment will be made, and the money will be returned to the subscribers in full. After the completion of the purchase the secret preparation will be manufactured by the Trustees only at Messrs. Browne and Wingrove's Works, 30, Wood Street, Cheapside, where every provision for secrecy at present exists.

secrecy at present exists

The directors are of opinion that profits will accrue from the applicability of this process to all ores containing amalgamable gold. The advantages it possesses over other methods arise from the following, viz.—Increased quantity of gold extracted, decreased quantity of guicksilver used, minimum loss of quicksilver, economic treatment grade ores for gold, concentration of the valuable metallic sulphides into a marketable condition, and the general economy of

It is proposed to deal with mine owners by way of license, royalties or otherwise, so that this company may participate in the value of the increase of gold obtained, and in rendering valuable many mines that are not now workable at a profit

the increase of gold obtained, and in rendering valuable many inness that are not now workable at a profit.

The purchase money has been fixed at the sum of £62,500, of which £25,000 will be paid in cash, and the remainder—£37,500, in fully paid-up deferred shares in the company, such deferred shares receiving no dividend until the ordinary shares of the company have in each year received a dividend at the rate of £10 per centum per

The directors have not thought it necessary to have a valuation made of the premises where the experimental works have been carried on at Greenwich, so that the purchase money for the whole has been agreed at the lump sum above mentioned without separation into detailed items.

The enclosed reports of Mr. Lloyd Wise, M.I.M.E., the well-known tent expert and Mr. Edward Field, M.I.C.E., testify to the value of the patent.

of the patent.

The only agreement entered into by the company is dated the 28th day of August, 1882, and made between Edmund Thomas Bruff of the first part, Thomas Allison Readwin and Alexander Hathorn of the second part, Frederic William Browne and Bernard Charles Molloy of the third part, and the company of the fourth part. The

parties of the first and second parts are the vendors, and Edmund Thomas Bruff, who is the promoter of the company, undertakes to defray all the preliminary expenses of the company up to the first allotment of shares. Copies of this agreement, together with the Memorandum and Articles of Association, and also of three agreements entered into by Messrs. Readwin and Hathorn with the Merioneth Mining Agency Company (Limited), under which they contracted to supply the said company with "mercury" treated by the "Readwin Process" as therein mentioned, which agreements will be adopted by this company, can be seen at the offices of the solicitors be adopted by this company, can be seen at the offices of the solicitors of the company.

Applications for shares must be made in the enclosed form, accom-

Applications for shares must be made in the enclosed form, accompanied by a deposit of 5s. per share, and remitted to the bankers of the company, or to the secretary at the offices of the company, where prospectus and forms of application can be obtained.

R. S. ARCHBOLD,

London, 28th August, 1882.

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7, Whitehall-place, London, S.W., 5th August, 1882. READWIN'S PATENT.

No. 3653, dated 22nd August, 1881.

This patent relates to an improved ore grinding and amalgamating machine of the kind wherein, by an arm carried round by a vertical spindle suitably driven, a pestle is caused to rotate about its own axis, and to roll obliquely on the inner surface of a circular pan.

The invention is designed to obviate or mitigate defects in machines of the kind as before usually constructed, and comprises features which I believe to be novel, and of considerable practical value in such a machine.

W. LLOYD WISE, Assoc. Inst. C.E., M. Inst. M.E., M. Iron and Steel Inst. Assoc. I.N.A.

REPORT ON READWIN'S ENGLISH PATENT.

No. 3653, dated 22nd August, 1881, for Improvements in Ore Grinding and Amalgamating Machinery.

I have examined specification of patents relating to ore crushing and amalgamating machinery, about 200 in number, as far back as the year 1868 inclusive, and have found nothing whatever in my opinion to interfere with the validity of Readwin's patent.

I have also examined his specifications and drawings, and consider that a substantial, commercial, and patentable improvement has been effected in the original Britten machine, which machine, without such improvements would be comparatively useless.

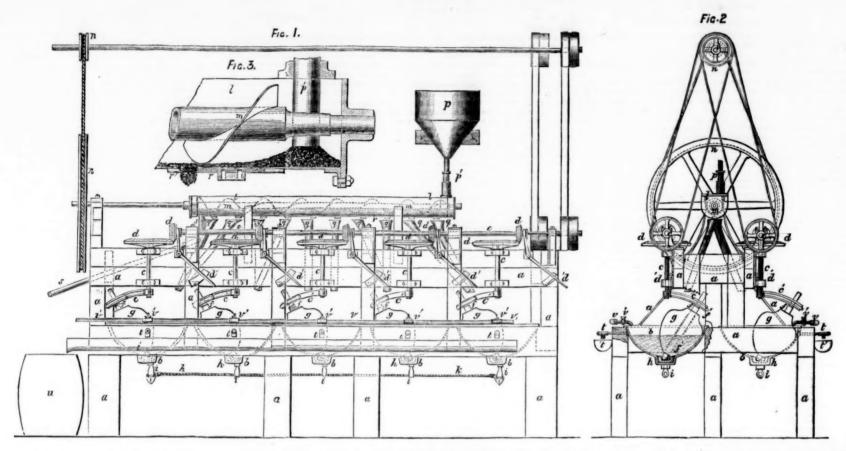
improvements would be comparatively useless.

I am further of opinion that the said letters patent granted to Mr. T. A. Readwin are valid, and I may add that I consider that the granting of the American patent goes far to justify this belief, inasmuch as the American law requires searching investigation as to novelty before a patent is granted.

EDWARD FIELD, Assoc. Member I.C.E.

Chandos-chambers, Adelphi, W.C., 26th July, 1882.

# AURIFEROUS ORES AND THEIR ECONOMIC TREATMENT.



AURIFEROUS ORES AND THEIR ECONOMIC TREATMENT.

The extraction of gold from its ores has only ranked as a commercial industry for a little over a quarter of a century, yet the progress made, both in the extraction of the precious metal and in the mining of the ore, has been so rapid that, judging from external appearances, one would be disposed to class it amongst the businesses carried on from time immemorial. The treatment of gold ores as long carried on in the old colonial dependencies of Spain in South America was so unquestionably slow as to beer no comparison with long carried on in the old colonial dependencies of Spain in South America was so unquestionably slow as to bear no comparison with the processes which have since become common on the Pacific slope of the United States, and it may safely be said many millions of tons of auriferous material which has been made to yield large profits in the Western States would have been condemned as worthless or intractable in Brazil or other countries of South America. But that perfection has been reached is not pretended, and, just as 30 years ago, the treatment of gold associated with sulphides was declared to be incapable of yielding profits, whilst at the present time that very class of ore now yields most of the wealth of the gold districts, so the now disputed occurrence of salts of gold in Nature may be verified in such a manner as to prove immensely profitable to those earliest in the field of investigation on the commercial scale. It will readily be acknowledged upon glancing at a list of the now It will readily be acknowledged upon glancing at a list of the now recognised metals—sodium, aluminium, magnesium being worthy of mention as being familiar to all—that many of them were either mention as being familiar to all—that many or them were either absolutely unknown at the beginning of the century, or so extremely rare that only a few of the most celebrated chemists had ever had the satisfaction of seeing them, yet at the present time they are of considerable industrial importance. Even 30 years ago sodium, which now plays a prominent part in obtaining other previously rare metals, was looked at with amazement if a lump the size of a walnut was exhibited and the production of aluminium and magnesium on was exhibited, and the production of aluminium and magnesium on the commercial scale was still more recent. The occurrence of the salts of gold in Nature has been confidently

the commercial scale was still more recent.

The occurrence of the salts of gold in Nature has been confidently declared by the few for a longer period than aluminium and magnesium have been in the market, and perhaps the best demonstration of the opinion being justified is the fact that mineral ascertained to contain little, if any, free gold extractable by any previously known process has in the hands of Mr. T. A. Readwin been made to yield up the precious metal in quantities which leave a handsome profit upon the treatment. This being so it really matters little what may be the scientific views entertained upon the subject; if ore previously unworkable be made to yield a good return upon the money expended in mining and treating it capitalists will be quite contented to leave scientists to think what they please. Already Mr. Readwin has confirmed the excellent results he has been obtaining at Glasdir by treating any auriferous ore sent to him for testing, so that there is now general confidence that full reliance may be placed upon his process, and that many of the gold mining concerns in India and elsewhere which have been struggling on unsatisfactorily for the shareholders have now the prospect of dividends before them. In connection with the process Mr. Readwin has just patented the machinery of which the above is an illustration, and in the final specification just lodged it is explained that the invention has reference to that kind of machine used for grinding ore and amalgamating gold or silver with mercury, wherein by an arm carried round by a vertical spindle suitably driven a pestle is caused to rotate about its own axis, and to roll obliquely on the inner surface of a circular fan, whose half vertical section is of a form resembling that (as seen in corresponding section) of the rounded surface of the pestle.

In machines of this kind as heretofore usually constructed con-

In machines of this kind as heretofore usually constructed con-In machines of this kind as heretofore usually constructed considerable wear takes place in the bearings of the vertical spindle (to which neither oil nor grease can safely be applied), also in the pestle axis, also in the mercury cup at the bottom of the pan; moreover, considerable loss of time arises owing to the irregularity due to hand feeding, and there is no efficient provision against unauthorised withdrawal of the contents of the pan. Now, according to this invention to obviate or mitigate these defects, the bearings of the vertical spindle are formed of hard wood or asbestos, and water is used as a The pestle axis (heretofore usually made in one piece with or cast in the pestle body) is made of hardened steel or phosphor bronze, and removable from the pestle body, and is fixed therein in such a manner that it can be shifted lengthwise or renewed at pleasure. The pan is recessed at the bottom, and a square tapered hardened steel or phosphor bronze cup is placed in the recess to receive the lower end of the pestle axis, which works therein. A long trough

each pan) a boss on the screw shaft, carrying a cup or cups, which is shall dip into the material, and discharge the required quantity into a shoot in a specified time (the apertures in the bottom of the trough being in this case dispensed with). According to the arrangement which he considers most advantageous he forms outlets at the bottom of the trough with adjustable shutters, which may be regulated so as to allow the required quantity of ore to pass through in a given time. The bottom of each pan is provided with an eyed tap screw, a wire or bar (which may be composed of wires stranded together) is put through the eye of each tap screw in a series, and is secured by means of a lock and key. In the above diagram Fig. 1 is a side elevation of a grinding and amalgamating machine, embodying his invention, and comprising a set of 10 amalgamating pans fitted, with gyrating pestles. Fig. 2 is an end elevation, partly in section of the right-hand or driving end of the machine. Fig. 3 is an enlarged sectional elevation of a portion of the feeding trough: a is the framing of the machine which supports the pans, b, of which 10 are here shown by way of example, and as being a convenient number, but more or less may obviously be employed: c are vertical shafts driven by gearing, d, from the driving shaft, e, the gearing, d, being disconnected when required by shifting the pinion out of gear along the shaft, e, by means of the levers, d'. These shafts, c, carry each a hooked arm, c', in which freely rests the axis or spindle, f, of the pestle, g, so as to carry the pestle round, at the same time allowing it to rotate about its axis, the half vertical section of the pan approaching approximately the rounded surface of the pestle, as shown in section in Fig. 2. The bearings of the vertical shafts, c, are formed of hard wood, prepared asbestos, or other material which will wear well when lubricated with water. The lubricant is supplied to the bearings through holes formed in the bosses of the large gear wheels, d. The pest The pestle axis, f, which is made of hardened steel or phosphor bronze, is fitted to the pestle body, so as to be easily removable therefrom, by means of keys, f', as shown in Fig. 2 (or the spindle may be screwed into the body and secured by a check nut, or the spindle may be fixed by set screws passing through the top end of the pestle body), and so that the pestle body can be shifted lengthwise of it at pleasure. The bottom of each pan is recessed so as to receive a hardened steel or phosphor bronze cup, h, in which works the lower end of the pestle's axis, and which holds the mercury for amalgamating the gold, silver, or other metal to be extracted as it is reduced or separated from the ore: ii are eyed tap-screws screwed into the bottoms of the pans to allow when unscrewed of the mercury or amalgam being run off from the said cups, through which a corresponding hole is bored and tapped to permit of easy removal by a ring bolt. A wire or bar, k, which may be composed of wires stranded together, is passed through the eyes of the screws, ii, and secured thereto by lock and key, so as to prevent the unauthorised withdrawal of the contents of any of the pans: l is a trough carried above the pans, and having a screw-bladed shaft, m, which revolves therein by means of the wheels, n n, driven from the shaft, o, which screw feeds the crushed ore fed from the hopper, p, to each of the pans by means of shoots or spouts, q. The regulating tube, p', is capable of being shifted up or down so as to regulate the supply of crushed ore to the trough, l: r r are sliding shutters (shown in section at Fig. 3) fitted to the bottom of the trough, which doors regulate the openings, r, so as to allow the requisite quantity of ore to pass through in a given time: s is an overflow pipe, which carries off the superfluous ore as it collects at the further end of the trough, from whence it is returned to the feeding hopper, p: t t are overflow pipes to permit the surplus water, together with the baser metals and gangue in a finely divi is fitted to the pestle body, so as to be easily removable therefrom

the further end of the trough, from whence it is returned to the feeding hopper, p:t t are overflow pipes to permit the surplus water, together with the baser metals and gangue in a finely divided condition, to escape from the pans by the troughs, t', t', to receivers, u. Two or more outlets may be applied to each pan when required at different levels: v v are pipes running the length of the pans, provided with cocks, v', v', for supplying water to the said pans. In operating the machine the cups, h, are filled with mercury (for treating ores containing ingredients injurious to ordinary mercury he uses specially prepared mercury), water is then run into the pans through the cocks v' up to the level of the outlet t. The pestles are then set in motion by throwing the bevil wheels, d, into gear, forcing the pestles to revolve in the pans by means of the arms v'. The hopper p being filled with ore crushed to the required size, the ore falls into the trough, l, at such a rate as may be allowed by the adjustment of the shutters of the shoot, p'. The screw, m, being set in motion carries the ore along the trough, and causes it to pass in a uniform layer over the adjustable apertures, v', the screw being so dened steel or phosphor bronze cup is placed in the recess to receive the lower end of the pestle axis, which works therein. A long trough is provided to supply the entire set of pans; in this trough a screw is caused to revolve, so as to gradually propel any material placed in it from one end of the trough towards the other. For each pan there is an aperture through which as the material travels along the trough some of it falls and is conducted to the pans, the quantity supplied to the pans being regulated by suitable means. According to one arrangement for this purpose each of the apertures in the trough is arrangement for this purpose each of the apertures in the trough is provided with a chamber of specific gravity, having inlet and outlet to the mercury in the cups, \$\hat{k}\$. The mercury catches the amalgamable portion of the precious metal contained in the pulverised ore, and rather less satisfactory than those witnessed in 1880, the production are the sound in the proper quantities of the sate without much difficulty. English coal has risen 2s. per ton upon the Belgian material travels along the trough is uniform layer over the adjustable apertures, \$\hat{r}\$, the screw, \$\mathbb{m}\$, the screw, \$\mathbb{m}\$, the pease 2s. per ton upon the Belgian material travels along the trough is uniform layer over the adjustable apertures, \$\hat{r}\$, the screw being so caused to revolve, so as to gradually propel any material placed in the from one end of the trough to the shaft that it shall revolve at a proportionate rate is an advance of 5d. per ton, have just carried the enhancement in advances of 5d. per ton, have just carried the enhancement in a difficulty. English coal has risen 2s. Per ton uniform layer over the adjustable apertures, \$\hat{r}\$, the screw being so cause it to pass in a difficulty. English coal has risen 2s. Per ton uniform layer over the adjustable apertures, \$\hat{r}\$, the screw being so an advance of 5d. per ton, have just carried the enhancement in the pease and in the proportionate rat

screws or gearing operated by the driving shaft placed over the machines.

Another arrangement to produce the same effect consists of (for each pan) a boss on the screw shaft, carrying a cup or cups, which shall dip into the material, and discharge the required quantity into a shoot ir a received time of the approximation.

eyes of the tap screws, and the mercury and amalgam run off as required.

The extent to which an invention for treating ores such as Mr. Readwin proposes to deal with can be applied can scarcely be estimated, as the difficulty would be to find those who having poor or refractory gold ores to treat would not avail themselves of it. Mr. Readwin has already been very successful in his Welsh experience, and seems likely to have a good opportunity of testing the invention in India, but it is probable that the greatest results will be obtained in Ireland, as it is confidently believed that it will now be practicable to open up the Wicklow gold field, which is acknowledged to contain great wealth, and to be capable of yielding large profits when thoroughly developed. Mr. Readwin has been long engaged upon the subject, and now that he has perfected the process it is cordially to be hoped that he will attain the success he so well deserves.

# FOREIGN MINING AND METALLURGY.

FOREIGN MINING AND METALLURGY.

There is no change to report in the general condition of the French iron trade. Extreme activity prevails, but the quotation for bars has not been carried beyond 8J. per ton. M. Peslin, reporting upon the production of the ironworks of the department of the Nord in 1881, states that they produced during the year 239,419 tons of pig. 217,531 tons of merchants' iron, 19,263 tons of rails, 62,257 tons of apecial iron, 23,677 tons of plates, and 47,781 tons of Bessemer steel. The production of rails and merchants' iron appears to have decreased last year, but in other respects 1881 was a progressive period in the metallurgical industry of the Nord. The demand for industrial coal in Germany continues considerable. All descriptions of combustible are for the rest in much request. Coke especially is in such great demand that efforts are being made to still further increase the production. Important deliveries are being made, especially from the Sarrebruck district, to Alsace. The imports of coal into Germany in the first half of 1882 amounted to 914,044 tons, as compared with 791,480 tons in the first half of 1881, showing an increase of 123,564 tons, or about 16 per cent, this year. The coal imported into Germany comes principally from England, 520,970 tons having been received from Great Britain in the first half of this year.

The Belgian iron trade maintains a good tone without; at the same time, much change in quotations. Pig has benefited from the fact that the stock in the Charleroi district has almost disappeared. The strength of the market for pig will exercise, no doubt, some influence upon the market for pig will exercise, no doubt, some influence upon the market for pig will exercise, no doubt, some influence upon the market for pig will exercise, no doubt, some influence on the motoks. Almost all the rolling-mills have work assured for three or four months in advance. Firmness, is of course, the natural result of so favourable a situation, although the activity prevailing i

prevailing is scarcely sufficient to induce ironmasters to attempt a rapid advance in rates. Belgian casting pig has been quoted during the last few days at 3l. per ton, while refining pig has made 2l. 10s. per ton. No. 2 iron has brought 5l. 16s, per ton. Iron for construction purposes has been in some demand. Girders have made 5l. 16s. to 6l. per ton. Plates have supported a quotation of 7l. 12s, per ton, boiler plates have made 8l. 8s, per ton. The German iron trade remains firm. Pig has been in good demand upon the German markets, and iron has also been actively sought after. Some advance in rates and iron has also been actively sought after. Some advance in rates has been accepted without discussion, and a further rise is talked of.

The German steelworks are still well employed, and the same may be said of the mechanical construction establishments. The Belgian coal trade is considered to have further improved. The Belgian coal trade is considered to have further improved. Orders are numerous; so numerous, indeed, that several collieries have been obliged to refuse proposals made to them. A great many firms appear anxious to lay in supplies, so as to protect themselves against any possible eventualities, and the result is an exceptional abundance of orders. A general advance in quotations is expected in the autumn, and should the winter prove a little rigorous exaggerated rates may then provail. In the Couchant du Mons the situation is extremely favourable. So far from stocks having been reformed in June, July, and August, they have, on the contrary, rather diminished. An advance in rates has been admitted without much difficulty. English coal has risen 2s. per ton upon the Belgian marof last year having declined to 3,671,702 tons, as compared with 3,701,589 tons in 1880. In 1879, however, the production did not exceed 3,273,513 tons.

# Meetings of Bublic Companies.

#### KIRK MICHAEL MINING COMPANY.

The annual meeting of shareholders was held at the offices of the company, Gracechurch-street, yesterday,
Mr. J. Y. WATSON in the chair.

The annual meeting of shareholders was held at the offices of the company, Gracechurch-street, yesterday,
Mr. J. Y. WATSON in the chair.

Mr. C. B. PARRY (the secretary) read the notice calling the meeting, and the balance-sheet was taken as read.

The CHAIRMAN said: Gentlemen, this meeting would have been called earlier than this, but in February last the lead ground not having turned out equal to expectation, and the price of lead falling too low to pay for its extraction, the directors had the mine specially inspected. Certain works were then recommended to be done, and it was hoped ere this that some good results would have followed, but the work has not been completed, and without funds it cannot be carried on It will be remembered that down to the shallow level the mine sold ore for 1878. Its. Id., from a course of ore 50 fms. long, and that before the present company was formed the shaft had been sunk 10 fathoms deeper, and all the necessary machinery for working the mine erected. In the bottom of the shaft had been sunk 10 fathoms deeper, and all the necessary machinery for working the mine erected. In the bottom of the shaft on the mine to all appearance, he said, was on the eve of making profits. The calculations of the late manager was that the lode would be more productive in the lower level, but if only worth 1 ton perfathom he might estimate for 50 fathoms long and 15 fathoms deep 750 tons of ore. Capt. Rowe also thought that at the junction of two lodes (similar to what took place at Foxdale a few years ago, and which resulted in such enormous profits) great results would also follow at Kirk Michael in about 12 months. These considerations, and believing that profit all the states of the same and prospects that they, with manager and secretary, lave carried on and still hold nearly 16,000 shares out of 18,000. Capt. Rowe himself holds 2943, and in here to-day to explain to you how it is that the mine thus far had sinappointed expectations. He informs the directors that the fall in lead from 134,

ood ore.

Mr. Rows said there were two points, the sinking of the shaft, and the other oint to which the Chairman had referred.

Mr. Panwr: Could they not both be carried on together?——Capt. Rows hid it was entirely a matter of expense, and a question for the directors and harsholders to decide.

in Parry: Could they not both be carried on together:

and it was entirely a matter of expense, and a question for the directors and shareholders to decide.

Mr. Orlando Wenn asked Capt. Rowe why he expected to meet with something good at the point indicated?——Capt. Rowe said on account of the depth. They expected to meet with the junction of the slide with the lode at the 30 fathom level. There was a large conglomerate rock, and there was lead running through it in a fragmentary way. It was all mineral-bearing ground.

The Chairman said that in 1845 at the Foxdale Mine Capt. Rowe reported they had a lode going down north only about ½ ton per fathom, but as they went down and a slide similar to that in the Kirk Michael formed a junction with the lode, they had a deposit of ore which gave 300,0004, and Capt. Rowe, who inspected Foxdale at that time, believed that some such great result would take place in this mine also, and there in the 10 fathoms they would touch it.

Mr. Orlando Wenn said he was in the original mine, and he heard that Mr. Warington Smyth had stated that the mine bore the character of the Foxdale. He wrote to Mr. Warington Smyth wrote to say that he should not think—because of his position as a Government Inspector—of giving any opinion on any mine in which Government was concerned; but he made the remark not with respect to what he saw on the surface, that the general character of the ground put him very much in mind of the Foxdale, or words to that effect.

Cart. Rowe said he fully endorsed that opinion—that the general character of

that effect.

Ont. Rows said he fully endorsed that opinion—that the general character of
the outline of the surface was very much like the Foxdale.

The CHAIRMAN then moved that the report and accounts be received and
adopted.—Mr. ORLANDO WEBD seconded the motion, which was put and

The report of Capt. Rowe, which it was decided to take as read, was as follows:—

Aug. 22,—I beg to submit for the meeting of shareholders, on Friday, the following report on the operations and results of the mine since Nov., 1880. When this company came into possession, the principal shaft had just been sunk to the 20 fm. level on the course of the lode, which in sinking was worth from 1 ton to 1½ tons of lead per fathom, with strongly favourable signs of further improvement as the mine would proceed in depth. At the 20 fm. level, after fixing a new lift of pumps, and cutting lodge, we started to drive out levels north and south on the course of the lode, in the former direction (north the level is driven 35 fms. altogether, 25 of this from the shaft was regularly in ore, the ground being worth on an average about 10 overs, of lead per fathom; southwards on lode we drove 35 fms., 15 of which from shaft was in ore, worth also about 10 avets, of lead per fathom. During the driving of these levels we resumed the sinking of the shaft, and have carried it down to the 30 fm. level, and driven north and south 13 fms. The lode in this sinking has disappointed us; instead of holding its own, and increasing in value, it fell off in size and produce, especially during the lattenty of the sinking. It was my opinion, and of others as well, that the opposite would have been the result, and that the lode would have widened and improved in productiveness as we approached in depth, the large east and west course dipping towards it; this falling off may only be temporary, but it state the facts as they now are, and according to the past the junction, but having met with this falling-off in the lode, the sinking was asspended, and operations kept to driving the 20 fm. level north and south, sepacially in the latter direction, with a view of finding the lode on the other spads of south of the side, and running into a very high mountain. I may state this was a primary object of former workers, who spent much time and money are the report of Capt. Rowe, which it was decided to take as read, was as follows

was re-elected a director.

On the motion of the CHAIBMAN, seconded by Mr. LATBEILLE, Mr. Orlando
Webb was re-elected a director.

On the motion of Mr. OBLANDO WEBB, seconded by Capt. Bowe, Mr. Robert
Beence was re-elected a director.

Ou the motion of Mr. OBLANDO WEBB, seconded by the CHAIBMAN, Mr. James
Thoran was re-elected a director.

the motion of Mr. Chiango it has, seconded by a Shareholder, the auditor, the motion of Mr. Laterille, seconded by a Shareholder, the auditor, Edward Ashmead, F.C.A., was re-appointed, onversation then ensued with regard to the desirability of raising money

on decentures.

Capt. Rows, referring to the "pinch" in the lode, said he had seen in Great
Laxey the lode pinch wither than it had in Kirk Michael, and then a short distance deeper down open up to 2007, or 2007, per fm. He would take a proportion
of the shares, and had no doubt other shareholders in the Isle of Man would do
the same.

The same, asked what they were spending at the present time?—The Mr. LATREHILER asked what they were spending nothing at all. The directors had stopped everything till this plan of raising money had been decided upon, so as no to get into debt.

The description of the cost of sinking t

stopped everything the this plan of the same more, but of set into debt.

Capt. Rowr, in reply to Mr. OBLANDO WEBB, said the cost of sinking the shaft 10 fathoms further would be, with incidental expenses, about 300%. The OBLANDAN: Would you be safe in commencing to sink the shaft if you got 100%. — Capt. Rowr: Quite safe.

After some further conversation, the following resolution was passed unanimously:—"That the plan of the directors with regard to the issue of 400 debentures of \$1, each be adopted payable as follows—11, down, 11, in two months,

1l. in three months, and 2l. in four months; such debentures to bear preference interest of 10 per cent.".

A vote of thanks to the Chairman closed the proceedings.

#### MID-DEVON COPPER MINING COMPANY.

The ordinary general meeting of the shareholders was held at the ffices, Finsbury-pavement, on Wednesday,
Mr. THOMAS NICOLLS ROBERTS was voted to the chair.
Mr. W. H. RICHARDS (the secretary) read the notice convening

The CHAIRMAN suggested that the report having been circulated

should be taken as read.

Mr. James Wilson, however, asked that the report should be read.
The CHAIRMAN then read the report, and formally moved its adoption, stating that he would be very happy to answer any questions which might be put.——Mr. John Gould be conded the motion.

Mr. Wilson entirely agreed with the latter part of the report and the way in which it was proceed to earry on the undertaking, be-

Mr. WILSON entirely agreed with the latter part of the report and the way in which it was proposed to carry on the undertaking, because it was what he had advocated all along. The reports of Capt. Skewis and Mr. Loam were only a repetition of the reports they had had for many years, all proving the value of the mine. If the upper levels were worked properly they certainly stood a good chance of success. He did not, however, agree with the suggestion that those who took the preference shares should rank equally with the ordinary shareholders in regard to any profits made over and above the 19 per cent. on the preference shares. Mr. Wilson dissented from the statement in the report that the mine had never had a fair chance of success, having reference to the loss of books by the late secretary of the company, and said that much of what was stated there was not true.

This led to a long discussion, in the course of which the Chalinkan maintained the accuracy of the statements in the report, and, in reply to a question, said that the debenture interest would be paid out of the money raised by the issue of the preference shares. If this were not done the mine could be seized by the debenture holders. This would, he considered, be a perfectly legitimate purpose to which to apply a portion of the money which would be raised. He was willing to take 2200 of the preference shares by degrees, and he entertained no doubt that the money required would be resdily forthcoming.

Mr. WILSON proposed an amendment to the effect that clauses 2 to 7 inclusive should be expunged from the report.—Mr. Eddar OLIVER seconded the amendment.

The amendment was put, and five voted for it and an equal number against

should be expunged from the report.—Mr. EDGAR OLIVER seconded the amendment.

The amendment was put, and five voted for it and an equal number against it. The Chairman thereupon gave this casting vote against the amendment, and it was declared to be lost.

Mr. OLIVER moved the omission from the report of the following clause:—
"The directors wish the shareholders to clearly understand that the money will be applied to the legitimate purpose of mining, and will not be wasted in high rents, high salaries, and extravagant travelling expenses, but will be faithfully applied to the purpose for which it was sought to be raised."

Mr. R. S. Wilson seconded this amendment, which was lost by the casting vote of the Chairman, and the original motion was then put and carried by the casting vote of the Chairman.

A special meeting was then held, and the notice convening the meeting was read by the SECRETARY.

On the motion of the CHAIRMAN, seconded by Mr. GOULD, the following resolution was passed:—"That the committee which was appointed on June 23, 1881, with power to negociate the sale of the mine and effects of the company be, and is hereby, dissolved."

The CHAIRMAN then proposed—"That the directors be, and they are hereby,

solution was passed:—"That the committee which was appointed who was passed; and is hereby, dissolved."

The CHAIRMAN then proposed—"That the directors be, and they are hereby, authorised to increase the nominal capital of the company from 15,0001, to 21,0001, by the issue of 6000 10 per cent. preference shares of 11, each,"—and in doing so he wished to show the reason the directors had for asking for this increase of capital and he had drawn up a short statement showing what the requirements would be to carry out the proper working of the mine. First, as to the fixed charges at the mine and in London, the debenture interest would absorb 3001, the rents in London and at the mine 1501; and the capitaln's salary 1041. The other fixed charges were put down roughly at 1961, making an annual amount of 2501. The rock-drills and all the appliances necessary to work them were put down at 10001, the driving of the 50 and 62 fm. levels 5001, and the sinking 8001. The repairs and alterations to the 60-ft. wheel, which Mr. Loam declared to be absolutely necessary to keep the mine in good working order, would coat 2001; and the 35-ft. wheel, recommended by Mr. Loam, would cost 12001. Then the indebtedness of the company would be about 12001, making 55501. They would have money enough to provide the rock-drills, and to provide for the driving, so as to test the accuracy of Capt. Skewis's report with reference to the 55 and 62. The 50 would be proved before the end of March. It was to the advantage of the ordinary shareholders to take up his proportion of this year, and he understood that the 52 would be driven before the end of March. It was to the advantage of the ordinary shareholders to take up his proportion of this year, and the understood that the 62 would be driven before the end of March. It was to the advantage of the ordinary shareholders to take up his proportion of the preference shares. Mr. W. HALL seconded the motion, which was carried after a short conversation, in the course of which Mr. Reeve raised a techni

# CLEVELAND EXTENSION MINERAL RAILWAY COMPANY.

CLEVELAND EXTENSION MINERAL RAILWAY COMPANY.
The ordinary general meeting of shareholders was held at St.
Michael's Hall, George-yard, Lombard-street, on Monday,
Mr. JAMES GOODSON (the Chairman of the company) presiding.
Mr. DOUGLAS A. ONSLOW (the secretary) read the notice convening
the meeting and the minutes of the preceding meeting, which were
confirmed. The directors' report was also read by the Secretary.
The CHAIRMAN said: Gentlemen, although there is not much to
communicate to you, still it is a necessary duty that we have to perform—to call you together for the purpose of enabling you to ask any
questions, and I hope we shall be in a position to satisfy you as to
the condition of affairs. You are aware that it was intended that
this line, if possible, should have been commenced before this period,
but as you know in small things coming into existence, there is a the condition of affairs. You are aware that it was intended that this line, if possible, should have been commenced before this period, but as you know in small things coming into existence, there is a great deal of difficulty in bringing them to maturity. That difficulty has been experienced in this case, but I am happy to say that through the exertions of the persons connected with the company we have overcome these difficulties, and I am happy to add that the line is now in progress. Mr. Waddell, the contractor, is on the ground, and on Aug. I he commenced the work, and, as you are well acquainted with him, you no doubt know that he has great capabilities, and that if he undertakes a job he soon carries it to completion without any of those mishaps which happens on these occasions sometimes. We have made excellent progress. We have a very able engineer, and I think with both these parties your interests will be well attended to. Mr. Waddell has not made much progress as yet, but it will be eatisfactory for you to know that he has his troops ready, and the machinery and appliances on the ground. He has a substantial body of men to commence the work vigorously very shortly. Indeed, he has made a substantial beginning, which if any of you gentlemen should happen to visit that part of the country you would have great pleasure in witnessing. Our solicitor within the last lew days has had occasion to visit the North of England, and he took occasion to go over to Saltburn to see the territory with which we are connected, and I am happy to say that he gives a most favourable account of what he saw there. The general body of landowners has given us a tolerably fair reception in the shape of taking shares for their land, and also for not requiring an outrageous price for the purchase of it. Of course, in some few instances rather exhorbitant figures are required, but it happens in that way in all cases. You will always find one or two holding out for an externe amount; but I think, gentlemen, you will have every caus

the board will have very great pleasure in insteming to any constitutions which may be asked.

Mr. J. C. Wakefield, in seconding the motion for the adoption of the report and accounts, said he feit very pleased that they had a contractor whom he had known for so long, and who was second to none in the kingdom for doing the work he undertakes thoroughly and well. He believed that in every undertaking in which Mr. Waddell had been engaged he had given satisfaction both to the directors and shareholders. He regretted that they had not been in a position to open the line, as the ironstone trade was improving, and the demand for Middlesborough from was enormous, while stocks were being reduced, and prices showed an upward tendency.

The motion was put and carried unanimously without any discussion.

Mr. Maddlesborough from was enormously without any discussion.

Mr. Maddlesborough the was considered thanks to the Chairman and directors, said he knew the district through which the line passed thoroughly well, and he was quite confident that Mr. Waddell would do his share of the work in a most able manner. He believed also that when the line was completed the share holders would receive all the benefit from it which they anticipated.

Mr. Krasingron seconded the motion, which was carried. The Chairman and directors, would continue to give their best attention to the interests of the shareholders. He also expressed his regret that Mr. Chappell, one of the directors, had, owing to severe liness, felt it right to resign his seat.

Mr. Chappell had a very large interest in the company, and he hoped that upon his restoration to health he would again join the board. (Hoar, hear.)

PERRAN SILVER-LEAD MINES .- A further improvement is re ported in the lode in Phœnix shaft, which is now worth fully 3 tons ported in the lode in Phoenix shaft, which is now worth rully 3 tons of rich silver-lead per fathom; shaft down 69 fms., and quite clear of the great mass of gossan. Eclipse rock-drills have arrived, supplied by Hathorn and Co., of Charing-cross, and air-compressors will be sent forward after being exhibited at Falmouth next week. The extra capital required has been freely taken up by the shareholders. The shares are expected to command a high premium, being under 12 0001 in number. 12,000 in number.

We understand that Mr. Edgar P. Rathbone, of the firm of Bain-bridge, Seymour, and Rathbone, who has recently reported on the Belt Copper Mines, Lake Superior, is leaving England next week to inspect and report on some important mines in Bolivia. Mr. Rathbone expects to be absent several months.

#### FOREIGN MINES.

FOREIGN MINES.

ALMADA AND TIRITO CONSOLIDATED SILVER.—Advices have been received from the mines, with the accounts for the half-year ending June 30. The profit for the six months was \$55,783, equal to 10,500f, sterling. The main stope continues to yield a large quantity of ore for the mills, and the north crit on San José gives stones of green ore. The stope in San Juan contains about 1 ft. of ore. The following telegram has been received from the manager of the mines in Mexico, dated Aug. 11. Profit for July, \$6400.

CALIFORNIA GOLD.—Advices received this week state that the mine was unwatered on Aug. 18, and confirms the telegrams recently received as to the starting of the mill. Telegrams are expected early next week giving the result of the first week's milling.

CANADIAN COPPER MD SULPHUR.—F. Bennetts, Aug. 13: At the Hartford Mine the vein in the 70 cast No. 5 shaft continues to be as reported—a large vein of from 5 to 6 ft. wide, yielding ores of about 6 per cent. The vein in the 10, cast and west of No. 3 shaft, is looking well. The stopes throughout the mine, both at No. 1 shaft and No. 5 shaft, are producing fair quantities of ore. The output of ore at the mine is about the same as for June and July and if we procure terms the quantity sent to smelting works will be about the same as for June and July. The smelting works are running well, the quantity of regalus made to date being in excess of any previous month.

COLOMBIAN HYDRAULIC.—A. E. Oakes, July 19: Malpaso Mine: Run No. 35 at the upper mine from June 19 to July 18, during which time washing was carried on for 650 hours, has resulted in the return (including gold purchased) of \$4747-10, the total cost at the mine for the same period being \$2259-74; leaving a profit of \$2477-36 - 495. I am pleased to report that not one moment was lost between the above run and the one now going on, for the water was turned on at the lower mine at the same time that the clean up began above, and the machine is now working upon the bedrock gravel in the cut. Thi

ore-house, dressing works, and smiths' shop, and that 70 sacks of second-class cobbed ore and 120 sacks of zinc headings were sent to Georgetown during the week.

\*\*OOFPORATION OF SOUTH AUSTRALIAN COPPER.\*\*—W. T. Bryant, July 8: Blinman: I am pleased to state the jiggers and crusher are nearly completed. The erection of buddles and other works necessary for the circulation and conservation of water for dressing purposes are progressing satisfactorily. The drawing-engine and house have been removed to the site selected for re-crection. Excavations for foundations will be commenced at once. The 35, south of Massey's shaft, is to-day worth about 1 ton of 20 per cent, copper ore per fathom. The winze recently communicated with the 35, south of Massey's shaft, is short distance to the east of the run of orey ground driven through. The 35, north of Massey's shaft, is sill poor and unproductive, but seeing the extensive excations in advance of this end, I am expecting to meet with an improvement shortly, every effort being made to effect a communication with the old workings. We are opening out, which is worth fully 2 tons of 20 per sent. sulphuret ores per fathom. We have communicated the flat winze with the 50, north of Massey's shaft, where we find the old workings are very extensive both in back and bottom, but there is a great deal of ground still standing in the sides of levels and in the arches that will cave a fair profit in working either on tribute or tutwork. We have sto net ribute pitch, and are prepared to set others as soon as parties come round to take them. The prospecting pit east of main shaft is sunk about 35 ft. since my last; the ground sunk through has been of a promising character, showing particles of bia ck ore disseminated throughout the gossan. —Wheal Friendship: We have suspended all operations excepting sinking the main shaft. This I consider advisable in order to open out on the lode at a greater depth in settled ground.

—S. Gribble, July 7: The ore at Mount Rose Mine mentioned in my las

forwarded to Bettana on the oth mate. In equal driving wear of eastern shalt is worth 25t, por fathom; the ore makes in deposits, but I have taken the estimate from 9 ft, that was driven last month. Severday I set six men to drive west of engineshaft, 10 fms. better and month, and the several holes when the several holes and gossan.

— J. Tregoweth, July 3: Leigh's Creek Mine: Cooke's shaft has been sunk during this month 5 fms. I ft., and is now 14 fms. 4 ft. deep. We have started to drive a cross-cut from the bottom of the shaft to prove the ground between the two lodes. Carr's shaft is now 13 fms. 5 ft. deep. He lode in the bottom is a very hard spar, and over 6 ft. big. carrying rich stones of yellow and purple ore. We have started to drive towards the old workings as this is down the same depth as the 16 driven from Bronche shaft. Or kings as this is down the same depth as the 16 driven from Bronche shaft. Or kings as this is down the same depth as the 16 driven from Bronche shaft. Or kings as this is down the same depth as the 16 driven from Bronche shaft. Or kings as this is down the same depth as the 16 driven from Bronche shaft. Or kings as this is down the same depth as the 16 driven from Bronche shaft. Or kings as this is down the same depth as the 16 driven from Bronche shaft. Or kings as this is down the same depth as the 16 driven from Bronche shaft of the shaft shaft at the new discovery is down 6 fms.; the lode is holding down regular and well defined from 2 to 3 ft. blg, but at present is not productive of saving ore, but from its general character it should make ore in going down.

DINGLEY DELL ESTATES AND GOLD.—Have cleared away all the refuse having the past week several holes have been blasted as were all holes into the reef; some of the quartz looks very well, but sufficient has not been done to down the same depth as the same depth as the product of the past of the past

level are loosing a little obtent. I have plat up a risk so to the characteristic of the workings, and have quarts from 1 to 3 ft. in thickness, and have seen gold in breaking it, and I think a payable block of stone.—140 ft. Level: The north drive has been driven 8 ft. during the past fortnight; the stone is very small in the drive. I have about 50 ft. further to drive to be as far north as the old drive, where we shall have more stone to work. The stone in the south drive is 4 ft. thick, and 12 ft. from the eastern to the western side of the quarts, so we are taking all the stone in front of us; have seen a little gold in breaking, but poor. We have crushing 520 tons of stone since we cleaned up; battery kept going all the time. We shall put through over 800 tons this month if all goes well, which I think will be payable. I also think the mine is looking better than the has been for the four months past. Machinery all in good working order and working well.

it has been for the four months past. Machinery all in good working order and working well.

EUREKA (NEVADA) SILVER.—Aug. 31: Report on mines for the week ended Aug. 7: Bald Eagle; A drift has been commenced from the winze in an easterly direction at a point 30 ft. below the 150 ft. level. The ledge matter has increased in size from 6 in. to 4 ft. in width in drifting 10 ft. This drift will be continued 25 ft. further, and if ore is not found in paying quantities another drift will be commenced from the bottom of the winze in the same direction. FLAGSTAFF DISTRICT SILVER.—M. Gunderson, Aug. 13: The following is the report for the week ending to-day:—In the cross-cut, in rise above No. 4, we drifted 15 ft., following seam of iron; the iron seam is not so large as when we started to follow it, but is good ore-bearing rock. The drift at top of rise on No. 1 is in 19 ft., gain 11 ft.; no change. The cross-cut on No. 1 was drove 5 ft., the rock is coarse blue lime stained with iron. The ore-body in cross-cut on the above level still continues varying in size and quality from day to day; we have taken out some silver ore and much good iron; the ore looks larger and of better quality this morning than for the past week, it is better defined and looks as though it would be a permanent thing. In rise over tunnel level we are still following iron ore of good quality, some galens scattered through the iron; have followed the iron for about 50 ft. Orcas-cut No. 1 at top of fig rise, on Tunnel level, is in 47 ft., gain 13 ft.; seam of ore smaller, does not look so well. Cross-cut No. 2, at top of same rise, is in 24 ft., a gain of 18 ft.; still

# The Orita Gold Mines (Limited).

CAPITAL £20,000, IN 20,000 SHARES OF £1 EACH.

The whole of the £20,000 Capital is to be appropriated to working the mines and other purposes of the company. The directors and their friends have such confidence in the success of the company, that they have already applied for the bulk of the capital, and consequently only very few shares remain open for public subscription.

> ALEX. FOWLER, Esq. W. T. HILL, Esq. JOHN ROMANES, Esq. P. W. SYDENHAM ROSS, Esq.

Directors of the Organos Gold Mines (Limited).

THE IMPERIAL BANK, No. 6, Lothbury, London, E.C.

SECRETARY AND OFFICES ARTHUR RUSSELL, Esq., 101, CANNON STREET, LONDON, E.C.

This company is formed for the purpose of working the extensive to the spot mentioned. This amount of water will be sufficient to

paid.

The Oritá estate is situated at a distance of less than 20 miles from the shipping port of Honda, on the River Magdalena, from whence there is a constant steam communication with Europe. The whence there is a constant steam communication with Europe. The estate is very extensive, containing upwards of 5760 acres, and comprises a great number of auriferous gravel mines, which it is intended to work by the hydraulic system.

Everything requisite for the prosecution of hydraulic work on a large scale is contained on the Oritá estate.

The auriferous gravel is practically inexhaustible, as the principal deposit alone extends right across the estate for about 3 miles; while there are other extensive deposits upon the property.

deposit alone extends right across the estate for about 3 miles; while there are other extensive deposits upon the property.

Magnificent timber can be cut on the spot for the construction of sluices and flumes, and a river, containing in the driest season of the year 3500 miner's inches of water, can, at a moderate outlay, be bought to command the principal mines at a height of 500 ft.

It is proposed to commence the operations of the company at a point on the estate where the gravel has been thoroughly prospected by a neighbouring mining company, and proved to be exceedingly rich. This company, working with a very small head of water and only on the top seam of gravel, is now making a profit at the rate of about £6000 per annum, and has extracted over £30,000 of gold from the ridge,

The present owners of the Oritá estates have already laid out and commenced the construction of a ditch to carry 3500 in. of water

uniferous gravel deposits of Oritá, situated in the State of Tolima, United States of Colombia.

A distinctive feature in this undertaking is that the whole of the capital will be available for working the mines and other purposes of the company, as neither purchase nor promotion money will be paid.

The Oritá estate is situated at a distance of less than 20 miles from the shipping port of Honda, on the River Magdalena, from whence there is a constant steam communication with Europe. The estate is very extensive, containing upwards of 5760 acres, and cometate is very extensive, containing upwards of 5760 acres, and cometate is very extensive, containing upwards of 5760 acres, and cometate is very extensive, containing upwards of 5760 acres, and cometate is very extensive, containing upwards of 5760 acres, and cometate is very extensive, containing upwards of 5760 acres, and cometate is very extensive, containing upwards of 5760 acres, and cometate is very extensive, containing upwards of 5760 acres, and cometate is very extensive, containing upwards of 5760 acres, and cometate is very extensive, containing upwards of 5760 acres, and cometate is very extensive, containing upwards of 5760 acres, and cometate is very extensive, containing upwards of 5760 acres, and cometate is very extensive.

£10,000; machines, fixing, &c., £5000; making £15,000. As already mentioned, no promotion nor purchase-money of any kind will be paid in connection with this company, the owners of the property having agreed to lease the whole estate, which is their own freehold, for the term of 21 years, upon a royalty of one-seventh of the gross proceeds of the mine. The owners further agree to sell to the company the freehold at any time during the term of the lease for the sum of £30,000. The whole of the capital of the company will, therefore, be devoted to working the mines, and should the minimum results as set forth above be obtained the shareholders may expect a return of the whole of their investment in holders may expect a return of the whole of their investment in dividends during the first few months after the completion of the

It may be mentioned that the proprietors of the Oritá Mines would not lease or part with their property had they the necessary capital to work them. As a proof, however, of the confidence which they entertain of the success of the undertaking they have agreed to sub-

Prospectuses, together with Forms of Application, may be obtained at the offices of the company, where the original reports, as well as the Memorandum and Articles of Association, may be

SAN PEDRO.—Captain S. Lean, July 2: The 185 fm. level cross-out has been driven 30m, 42c. 3m, 25c. during the past month; here we have been meeting month let out more water than unual. Since we passed it the ground has become very hard and expensive for driving. I have now altered the driving of this level to extend on the manto we struck and reported on hard last, and four men here, and opened out 4m. 50c. through mantos of sulphurest of copper, mundle, grantie, and quartz, but not richenought to value. Having commenced to clear out the 135 to see if we could get into the manto, we find the old timber of the 15c to see if we could get into the manto, we find the old timber of the 15c to the manto, there we sun the water deposit to see if we can get of the 15c to the manto, where we sun the water deposit to see if we can get down, which I have before advised. I wish to get down as deep as possible, when sinking the water deposit; the wines was producing \$\frac{1}{2}\$ then 25c to 15c to 15

PELYN WOOD COPPER MINE.—The adventurers in this property PELYN WOOD COPPER MINE.—The adventurers in this property where the work of driving an adit has been going on for the last 10 months with the object of cutting three east and west lodes in the hill at a depth of 40 fathoms, having turned their attention to the produce of this adit driving upon a caunter lode, have found by assay that the leader, about 3 ins. wide, gives a produce of 15t. per ton value for copper and silver, in addition to which there is cobalt and nickel, the value of which has induced some large dealers in minerals which produce these substances to suggest a visit to the property, with the object of coming to terms for purchasing the whole mineral output of the mine. This unexpected offer naturally excites additional interest in the minds of the adventurers, and is likely to lead to important results in the increased value of shares, which hitherte have fluctuated between 2s. 6d. and 10s. There is a length of 80 fms. driven upon the lode without any stoping whatever having been driven upon the lode without any stoping whatever having been attempted; so that the backs, for the whole distance from 10 to 30 fathoms in height to come away, there will be large quantities of this ore. Even at the estimated produce of 1 ton per fathom there would be many hundreds of tons, and at the value of 15L, as per assay.

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The present owners of the Orlin estates have already halo out and commerced the construction of a ditch to carry 300 in of water than the orline of the construction of a ditch to carry 300 in of water than the orline of the interest orthogonal control of the interest orthogonal control of the interest orthogonal control or the control or the control of the interest orthogonal control or the interest orthogonal control orthogonal control

# Mining Correspondence.

#### BRITISH MINES.

BRITISH MINES.

ANDERTON TIN.—W. J. Bowhay, Aug. 30: The water during the past week has been very abort, only enough to keep one-third of our stamps moving. It was lucky I had anticipated this, and had large piles of stamped tinstuff to wash up, and with that we have been busy for market. The burning-house and out up, and with that we have been busy for market. The burning-house and out out, worth 1001, per fathom. As we drive west the lode is richer than nearer the cross-course, and all through there is a very fine lode of well continued value. BEDFORD UNITED.—H. Fresise, Aug. 29: There is no change to report on the north lode. The tribute pitches continue to yield their usual quantities of ore. A McCalian's shaft, Bridge lode, the shaftmen are making fair progress in centing plat and sinking shaft. The lode in the 42 west is without change. The drivage in the 42 east is still continued by the side of the lode, and good progress is being made. In the 30 and cast we are clearing out the staff, and getting ready to take down about 5 fms. of lode, on which I shall be able to report more fully next week. In the winze sinking below the 30 the lode is strong and masterly in appearance, and as we are only carrying a part of the lode I cannot speak correctly as to its value, but judging from present appearances it cannot be worth less than 201, per fathom. No. 1 stope, in the back of the 30, is worth 181, per fathom; No. 2 is worth 211, per fathom. The lode in the 20 cast is about 2 ft. wide, composed of capel, iron, gossan, peach, and mundle. The work of the min throughout is progressing satisfactorily.

BUJEH BILLS.—S. Bennetts, R. Harris, Aug. 20: The Letcher's shaft has been retimbered near the surface, in readiness to send down the pumps for draining the 66. At Blue Burrow shaft the 40 east end is worth 71, per fathom, and the men have commenced to drive west. The lode is about 1 t. wide, composed of killas, quarts, and occasionally mixed with copper and lend over. The stope in the back of the 50 will yield 20 ex

The pitches are much the same as they have been. We shall send you a detailed report next week.

OARY CAMBORNE.—R. Southey, Wm. Vivian, Aug. 31: We have driven the 98 fm. level about 2 fms. west of sump, on the lode recently cut into at that level, which had been left undiscovered by former workers. Where we first cut into it that level, which had been left undiscovered by former workers. Where we first cut into it it was about 1 ft, wide, but it has continued increasing in size as we have opened on it westward, being in the present end 3 ft. wide, and a very fine looking lode, being composed of quartz, chlorite, or peach, and very rich variegated copper ore. It is very p rous and vughy, letting out water from almost every part, and is altogether of a highty favourable character for the production of copper in large quantities. We have 40 fms. to drive on this lode before reaching the cross-course to the wast, and then a still greater distance to our western boundary, making altogether a length of about 100 fms. of unexplored ground, under productive ground a: levels above. From the appearance of the lode in the short distance yet op med on it at the 95, and its increasing size in going west, we have certainly good grounds for calculating on opening out a valuable deposit of metal by unis drivage. There is nothing requiring particular remark at the oth s. points of operation, there being little change to notice since our last.

depoit of metal by anis drivage. There is nothing requiring particular remark at the oth. points of operation, there being little change to notice since our last.

CANNARYONSHIRE GREAT CONSOLS.—W. H. Borlase, Aug. 31: Since my last report we have taken down the hanging side of the lode in the 24 east of cross-out, and have hauled a very nice pile of orestuff to the surface from it, the produce of which is about 25 exts. of lead per fathom. The lode in the fore-breast is barely so good as this at present, but the spar is coming more concentrated, and ore may have a speedy improvement here. I would here remark the present end is not clear from the influence of the horse as yet, consequently the lode has not settled down to its proper underlay nor bearing, and looking at the circumstances which surround the lode at this point I think we have a good lode, which will improve as the end advances. The 24 end west is looking kindly and promising a little more lead, but not enough to value. The rise in the back of the 14 east, against No. 2 winze, is going up very well. The lode is improving in size and showing a little lead. The winze over this point is producing shout 12 cwts. of lead per fathom: I hope to hole this place of ground in the time stated. The stope in the back of the 4, west of cross-course, is only at present producing awing work. The stope east of Big Pass, in bottom of adit, is producing 20 cwts. of lead per fathom. The stope in the back of 14 west is producing 2 tons of ore per fathom. The lode in the end is producing saving work. The 8 fathom level west is producing 25 cwts. of lead per fathom. The stope in the back of 14 west is producing 2 tons of ore per fathom. The lode in the end is producing saving work. The 8 fathom level west is producing 25 cwts. of lead per fathom. And a stope in the back of this level 20 cwts. of lead per fathom. The stope in the adit, west of the footway-shaft has experienced a great change, from a branch or lode crossing and throwing it in the footwall almost at right an

ODENWALL GREAT CONSOLS.—W. Doldge, Aug. 30: The cross-cut south the 50 has been driven the required distance to prove the point referred to in y last report. A branch containing spar and prian has been intersected, but egrantic does not hold back thus showing that it is only a patch in the killas, he lode in the 50 west is at present about 3½ ft. wide; its composition is much as same as for some time past, except that it is now just commencing to proues a little tin. The lode in the 37 west is still maintaining its large size and indly appearance, being all the width of the level—4½ ft., with more lode anding south.

hindly appearance, being all the width of the level—4½ ft., with more lode standing south.

OWM DWTFOR (Brynarian).—J. Davies, Aug. 29: Pensarn: The lode in the 20 driving north continues the same. We have driven 2 fms. since we commenced. I do not expect there will be much change till we near the junction with Morgan's lode. All the machinery works well.

DEREEBY MOUNTAIN.—John Roberts, W. Bandoe, Aug. 30: On the whole the bargains are looking a little better than last week. The rise we are now carrying 10 ft. long and about 6 ft. wide, which will produce 3 tons per fathom of lead. The south stope is getting into the better ground that we spoke of bore, and the extreme end south of this stope is looking better also, which is a very important feature, as it is going forth over the No. 6 end. The underhand stope to the north of the rise keeps much the same value. We purpose sending out samples for 20 tons by the end of the week.

DEVON FRIENDSHIP.—F. R. W. Daw, W. Gill, Aug. 31: The lode in the 30 nd, east of Bennett's shaft. is improving, and worth now full 9½ per fathom. The rise the back of this level has also considerably improved during the last few days, and will produce 9 tons of arenical mundle per fathom. No. 1 stope in the 30, west of Bennett's shaft, is without any alteration since we reported to you last week, and is worth full 15½ per fathom. In the 12 end, west of Bennett's shaft, we have cut a leader of black and yellow copper ore, about 9 in, wide, and the end is looking very promising for further improvement. All other points in the mine are yielding their usual quantities of areenical mundle The heavy rains we have almost every day retard us considerably in our calcining operations, and it will be necessary to cover the chambers more effectually before winter sets in.

DEVON GREAT CONSOLS.—Isaac Richards, Aug. 31: Wheal Emma.—In-

g operations, and it will be necessary to be the content of the wind of the content of the conte

seen (7 ft. wide) it is of a most promising character, composed of very fine capel, peach, quarta, prian, some good stones of copper ore, and large quantities of sulphurous and arsenical mundic, —Railway Shaft: In the 190 west the lode is ft. wide, and presents a most promising appearance, being composed of capel, friable quarta, peach, and prian, with copper and mundic: worth of the former 2 tons, and of the latter 3 tons per fathom.—Watson's: In the engine-shaft, sinking below the 38, and also in the western shaft sinking below the 20, the ground continues of a promising character for the production of mineral and favourable for progress. There is no alteration of importance at any of the other points of importance throughout the mines.

DEVON GREAT UNITED.—Issac Richards, Aug. 31: In the 120, east of Wilestond's shaft, the lode is 12 ft. wide, of a promising character, and yields some copper and mundic ores of good quality. In the 120, west of Wilesford's shaft, the lode is 14 ft. wide, composed of capel and quartz, with small quantities of copper and mundic ores. In the 50, west of Watson's shaft, on the Capel Torlode, the lode is 14 ft. wide, yielding a little of both copper and mundic ores. We have started a rock-drill in this end, which is working satisfactorily, and after the men have a little more experience in the use of the drill we hope to make grawter speed in driving, and we look forward to laying open some good profitable ground as the workings are extended towards the crossecurs in this part of the mine. The machinery throughout the mine is in good condition, and working well.

DRAKEWALLS UNITED.—Moses Bawden: We can again go through Matthew's shaft, and by the early part of next week hope to have everything in order for draining, and we cannot now see that we need apprehend any further danger from the old workings tear this point. The delay of the past few weeks has caused us considerable inconvenience; etill, since the 27th of last month, we have prepared and have ready for sale another 9 tons

a day of two; but I expect there is much cetter ore in confection with this cavity, as we have invariably found this to be the case in this lode. Mr. Eyton has taken delivery of his parcel of ore, and we have commenced dressing towards next sampling.

EAST ROMAN GRAVELS.—Arthur Waters, Aug. 31: The 97, south of old winze, south of shaft, is at present going forward on a lode 1 ft. wide, but there are evidences in sight of the existence of other branches standing on the east side of the drivage which will come to form a junction with present lode as the end advances. The rise in this level against new winze is worth 1 ton per fathom. The two stopes in bottom of the 88, at and south of old winze, are worth together 234 tons of lead ore per fathom. The new winze in said level, 30 fms. from shaft, is worth 12 cwts, per fathom.

EAST WHEAL ROSE.—Wm. Skewis, T. Doidge, Aug. 25: Penrose's Shaft: The 90-in engine is now fixed, and working in first-class condition. The 15-in, plunger-lift from adit to surface—24 fms., together with bearers, cistern, &c., is liked, and made complete. This being done, the 20-in. lift was at once dropped to the 20, and the water forked to that level, bearers and cistern fixed, and lift dropped to the 30, to which point the water is now being drained with all speed. The men are now clearing the 26, south from Penrose's to Foster's shaft; this will be done as quickly as possible, in order to secure ventilation for the proper working of the south ground, as well as clearing the shaft. At the 10, south on the east and west lode, ground is open for three stopes, varying in value from 84. to 104; one of these is now being worked by four men, and the others will set to work as soon as the whim is ready to draw the stuff. Innes lode, in the three stopes in back of adit, is worth from 5 to 10 cwts. of silverlead per ton, and about 7 cwts. of blende per fathom. When the 20 is cleared south to Roberts' shaft we shall at once cross-cut west to Middleton's lode. The creation of the winding-engine is to

draining of the mine to the bottom will go torward with great speed, and when most perfect case.

GAWTON.—G. Rowe, G. Rowe, jun., Aug. 22: The lode carried in the 117 cast is 6 ft. wide, principally composed of capel, spar, and mundic, mixed with copper ore to the amount of 8 tons per fathom. The lode in the stopes in the back of this level—117—is producing 8 tons of mundic and ore per fathom. The lode in No. 2 stope in the back of the same level is worth 20 tons of mundic and ore per fathom. The lode in the 105 cast is yielding 6 tons of mundic per fathom. The lode in the rise and stope in the back of this level—105—is producing 12 tons of mundic per fathom. The lode in the 70, cast of cross-cut, is yielding 15 tons of mundic per fathom. The lode in the stopes in the back of this level, both cast and west of cross-cut, is yielding 19 and 12 tons of mundic per fathom. All other work at surface in the manufacture of arsenic, and keeping the furnaces, flues, &c., are progressing very satisfactorily.

of mundic per fathom. The lode in the stopes in the back of this level, both east and west of cross-cut, is yielding 10 and 12 tons of mundic per fathom. All other work at surface in the manufacture of arsenic, and keeping the furnaces, flues, &c., are progressing very satisfactorily.

GLASDIR ARGENT OOPPER.—John Parry, Aug. 29. All goes on as well as usual. We are raising some excellent copper now. Have sent off to Swansea within the month over 70 tons of ore, with prospect of continuing this for some time to come. When we have altered the machinery shall be able to make twice the quantity or more, as the mountain is full of ore.

GODDARD'S LEAD.—R. H. Vivian, Aug. 31: Since my report of last week we have been cutting ground in the adit level, so as to fix the tackle where we can bring out the lead ore more conveniently through the adit level instead of winding it to the top of the shaft. The bottom stopes are yielding good or quite as good as at any previous time, thus proving to me that the lode is opening good in depth.

GOVER CONSOLS.—Wm. Hooper, Aug. 28: Tamblyn's engine-shaft is now down 30 fms. below the adit, which is the depth the old miners worked; they cut into the lode, but did not drive a foot on ft. To all appearances it is a very strong lode, and from 4 to 5 ft, wide. We have taken away some good stonesot tin from it, but have not opened it sufficiently to report on its real value. We have commenced to cut a plat, when down shall then open on the lode, which will enable us to get at its real value.

GREAT LAXEY.—F. Reddicliffe, Aug. 30: Welsh shaft, sinking below the 29, is going down at a fair rate, and is now sunk about 4½ fms. The lode still appears to be large, but it is mainly standing on the foot-wall side, so far as seen without ore. We are unable to report any improvement in either the 259 or 24 ends. In the latter place the lode is much disturbed, and valuable ore may be found alongside the present driving when the ground is opened. There is an improvement in the sink and stope in the i

worth fully 30. per fathorn. A few days ago a small since crossed the color and disturbed the lode, but it is coming in again. There is no other change to report.

GHEAT POLGOOTH UNITED.—S. Pascoe, Aug. 25: I beg to present you gheat a brief outline of operations since the general meeting held here on June 28. Although the engine-stamps, &c., started in a most satisfactory manner there have been a great many things to add to make the machinery complete as it now is; consequently it has caused great irregularity for some time in its working, but is now in full working order. We are pushing on with the tin floors with all possible speed, completed two round bindles, one hand buddle, which are in full work. In course of crection five other round buddles and water-wheel to drive them. We have sold a small parcel of tin, realising 134. 9s. 3d. We have sunk the newleath 10 fms. below addle, and driven cross-cut 8 fms. in the direction of main lode. At this point we have intersected a rich branch leading into the lode, which we are expecting to cut daily. I think we may reasonably infer by this that the lode will prove very valuable. We are drawing the water here by the whim, but in the event of cutting the lode, as we anticipate, we shall be necessitated to apply machinery for this end. We have driven on the course of new lode behind the stamps 8 fms. 3 fk., which has been of a favourable oharacter both in size and quality. We have sunk a shaft 10 fms. below the stamps, and cut new lode here and driven on its course 4 fms., from which we have broken rich specimens of tin. We shall commence to stope here at once in order to open communication with the above level. I have carefully tested various parts of the sett, and find that thece is a large quantity of tinstuff remunerative of the communication with the above level. I have carefully tested various parts of the sett, and find that thece is a large quantity of tinstuff remunerative two per communication with the above level. I have carefully tested various parts of Live. We require more stamping power, and are preparing for another axle of 12 heads, which we hope to fix at an early date. After the compileion of more stamping power, dressing floors, burning house. &c., we shall be in a position to make regular, and we doubt not, profitable returns.

make regular, and we doubt not, profitable returns.

GREEN HURTH.—J. Polglase, Aug. 25: Swan shaft is sunk since last report 9 ft; the lode has improved during the week, and is now worth 5 tons of lead per fathom, the shaft is now in hasle. The bottom level north is also improved, now worth 5 tons of lead per fathom. The stope in back of bottom level is still in a narrow place, consequently poor for a short distance. The stope, south of Vipond's sump, in back of bottom level, is worth 5 tons per fathom. A winze is commenced in the sole of the bottom level, set to four men at 4, per fathom. I shall be able to state its value by another week. No. 3 stope in back of the 30 worth 1½ tons per fathom. No. 4 stope is worth 1½ tons of ore per fathom. Nothing new in any of the other bargains. Dressing going on as usual. All our surface work is being pushed on.

GUNNISLAKE (CLITTERS). Wr. Stowie, John G. Secombe, C. W.

our surface work is being pushed on.

GUNNISLAKE (CLITTERS).—Wm. Skewis, John C. Seccombe, C. W. Seccombe, Aug. 30: The lode in the 236 fm. level west is worth 7t, per fathom. In this level east we are driving north to intersect the lode east of the cross-course. The lode in the 224 fm. level west is worth 8t, per fathom. In this level east the lode is producing good saving work for copper ore. The lode in the 212 fm. level, both east and west, is poor for the time. The lode in the 202 fm. level, both east and west, is poor for the time. The lode is worth 6t, per fathom. The rise in back of this level is worth 6t, per fathom. The lode in the 185 fm. level, both east and west, is producing good awing work for copper ore. The lode in the 176 fm. level west is worth 7t, per fathom. In this level east the lode is producing alittle copper, but not sufficient to value. The stopes and pitches throughout the mine continue to produce about the usual quantity of copper ore. We sampled on Friday last 425 tons (computed) of about our usual quality.

HEALEYFIELD.—J. Trelease, Aug. 25: In accordance with the statements

HEALEYFIELD.—J.Trelease, Aug. 25: In accordance with the statements hade in my previous report, we have recently commenced opening from a rise

EAST BLUE HILLS.—S. Bennetls, W. K. Mitchell, Jug. 30: In the 50 cast and he load is somewhat improved during the last week, and is now worth 17 per lakom. In the 40 cast earl, although the load is still mainly age a pool win habe shortly toreport something better from this end.

EAST CARLOND.—W. George, John Eallow, Ag. 29: Betting Report: To the ground has been a little siffer during the past month, and the load continues are ground and the standard of a general enverage with, composed of quarts, mundo, and the ground has been a little siffer during the past month, and the load continues regains and of a general enverage with, composed of quarts, mundo, and the ground has been a little siffer during the past month, and the load continues regains and of a general enverage with, composed of quarts, mundo, and the ground has been a little siffer during the past month, and the load continues regains and of a general enverage with, composed of quarts, mundo, and the ground has been a little siffer during the past month, and the load continues regains and of a general enverage with, composed of quarts, mundo, and the ground has been a little siffer during the past month, and the load continues regains and of a general enverage with, composed of quarts, mundo, and the ground has been a little siffer during the past month, and the load continues regains and the ground has been a little siffer during the past month of the ground has been a little siffer during the past month of the ground has been a little siffer during the ground has been a little siffer during the past month of the ground has been a little siffer during the past month of the ground has been a little siffer during the past month of the ground has been a little siffer during the past month of the ground has been a little siffer during the g

work of the ore. All the other points of operation are without atteration since last advice.

LANGFORD.—R. Goldsworthy, Aug. 39: Not being able to obtain a supply of pumps from the foundry we have been at a standatill towards forking the water for the last 12 days, but the shaft has been divided, cased, and a skip-road put down all complete as far as the 10 fm. level. I am pleased to say we have just had some pumps sent in, and promised three more to-morrow; that will be a since no time will be lost in sending them down.

LEAD ERA.—J. A. Ede, Aug. 31: The ground having become a little easier for driving, our progress has been better than for some time past. There is more sand mixed up with the flat ground, which is the only change in the character of the ground.

of driving, our progress has been oeter than to ro some time pass. There is more of the ground.

MELLANEAR.—John Gilbert, Aug. 30: The 30 cross-cut, south of Gundry's shaft, is getting mixed with mundic and spar, the ground is improved for driving. There is no change in the 70 cross-cut, driving north from the main lode. The 90, west of Gundry's shaft, on the south part of the lode, is still yielding 3 tons of ore per fathom. The winze sinking in the bottom of this level is also yielding 3 tons of ore per fathom. The winze in the bottom of this level is also yielding 3 tons of ore per fathom. The winze in the bottom of the 100, east of shaft, is yielding 1½ ton of ore per fathom. In the 110, east of shaft, the lode is 5 ft. wide, and yielding 1½ ton of ore per fathom, but the ground is more spare for driving. The lode in the 110, westfof shaft, is 3 ft. wide, yielding 1 ton of ore per fathom. The part of the lode carrying in the 120, east of shaft, is 5 ft. wide, and yielding 1½ tons of ore per fathom, but there is more lode staft, is 5 ft. wide, and yielding 1½ tons of ore per fathom, but there is more lode staft, in the north side of the level, which we shall take down very soon to ascertain its value. The rise in back of this level is yielding 2 tons of ore per fathom. The lode in the 90, driving east of the old engine-shaft, is 4 ft. wide, and yielding some saving work for copper ore. The lode in the 110, east of shaft, is 2 ft. wide, improving in appearance, and producing some low quality tinstuff. In the 110, west of shaft, the lode is 2 ft. wide, and yielding occasional stones of tin, but disordered with patches of copper ore.

MONKSTON MANGANESE.—J. Goldsworthy, Aug. 30: The lode in the 30 west is a good course of ore. Opening on the main lode is proving satisfactory, and worth 35t, per fathom.

MOUNTS BAY CONSOLS.—Wm. Argall, John James, J. Rowe, W. H. Argall,

yielding their usual quantities of copper ore.

MONKSTON MANGANESE.—J. Goldsworthy, Aug. 30: The lode in the 30 west is a good course of ore. Opening on the new lode in the 30 will soon be commenced. The opening on the main lode is proving satisfactory, and worth 352, per fathom.

MOUNTS BAY CONSOLS.—Wm. Argall, John James, J. Rowe, W. H. Argall, Aug. 25: Trebarvah: We are driving the 50 cross-cut south-west of engine-shaft, by six men; the ground is a little hard, but congenial for mineral, This cross-cut is being driven for the purpose of intersecting the Wheal Charlotte southlode, and Trenow, and other copper lodes, which have been very productive in the respective mines named. The tribute pitch working at 13s. 4d. in 12., in the back of the 52, west of Richard's shaft, is worth for copper ore, the sale for which will be in the coming week.—Sydney Gove: The engine-shaft has been cleared to the 30, and we still find a quantity of sand at this point, both in the shaft and level. We found below the 20 two old lifts of pumps from the last working of the mine. In the 10, driving on Brown's lode, we have some good stones of tin and copper; the lode is 1 ft. wide, worth 31, per fathom. This is being driven by six men, and we hope in a few days to communicate to the winz on Brown's lode, and after this is accomplished we shall have some good stopes at this point. In the north or tin part we have cleared several hundreds of fathoms of adits, opened 13 shafts, and now sinking two new shafts; most of these have ladder ways fixed, and Derry's erected for drawing the stuff to surface. We propose erecting whims as early as possible. In doing this we are pleased to tell you that an enormous quantity of tin ground that will give a good profit to the shareholders has been opened on. A 35-in. stamping-engine is now in course of erection, to which 56 heads of stamps will be attached. This and other erections are being pushed forward as fast as possible, and time only is required so as to be able to give good returns. We have s

west shaft on No. 1 lode for ventilation, and also when we require it for drawing stuff; this shaft is said to be sunk to the 40.

MOUNT CARBIS.—Wm. Tregay, G. Johns, Aug. 31: The lode intersected in the 50 north cross-cut is 6 ft. wide, and we have commenced driving on its ocurse both east and west. In the 50 cast end the lode is worth 25t, per fathom. In the 50 west end the lode is worth, in the winze, the lode is worth 25t, per fathom. In the 27 west end the lode is worth 12t, per

the 50 west end the lode is worth 22t, per fathom. In the 27 west end the lode is worth 12t, per fathom. In the 27 west end the lode is worth 12t, per fathom.

MYNYDD GORDDU.—Thomas Kemp, Aug. 30: The part of the lode carried by the 46 end, west from cross-cut, has not undergone any change during the past week, being of the same character and appearance as stated in last week; report. From the promising description of the lode here I have been expecting week after week to have had the pleasure of reporting that a good deposit of mineral had been met with, but up to this time we have been disappointed, and I have now brought the man back from the forebreast and put them to cross-cut north, the object of which is to ascertain whether the main part of the lode be standing in that direction, as the driving at this point is 15 ft. to the south of the level over the 34, where a good deposit of ore was opened in for some 5 fms. in length. The north part of the lode carried west from Mo. 1 cross-cut still continues very hard, being composed of killas, quarts, intermixed with silver-lead ore, worth 5t. per fathom; the breast is letting out a strong feed of water, which gives and calculations that we shall shortly have an improvement. The different stopes are about the same value as reported last week. Hauling and dressing going on a fast as possible.

NEW TERRAS.—T. R. Pryor, Aug. 31: We have cleared during the week foundation for smithy, carpenters shop, and men's changing house, also made saw-pit, and begun to clear for the new engine-shaft.

NEW WEST CARADON.—N. Richards, Aug. 30: We are still driving east of Hallett's cross-course at the 28; lode about 2 ft. wide, with a small leader or branch producing some rich grey and yellow copper ore, but not sufficient to value. We have removed the men from driving west on the little north lode and put them to work at another point for the present. The main lode in the rise in the back of the 42 has a very kindly appearance, yielding about ½ ton

of copper ore per fathom. A stope in the bottom of the 55 on this lode is about 20 in, wide, yielding about ½ ton of ore per fathom. The caunter lode on which we are driving west at this level is producing stones of ore.

NORTH BLUE HILLS.—B. Bennetts, Aug. 30: We have been able to get into the adit some 50 fms. on the course of the tin lode, and to the end of the drivage, which is just beyond a small cross-course, where the lode is unsettled. Throughout this drivage the lode varies from a few inches to 2 ft. in width, and underlies about 4% ft. per fathom north. In many places the lode has been taken away for tin. It has a promising appearance, and contains mundic and a little tinstuff throughout so far as can be seen as yet. About midway in this drivage the tin lode is crossed by a small blende lode, bearing south-west and underlying south-west. We are going to get some of the lode broken from various points, so as to ascertain its general characteristic better.

NORTH HERODSFOOT.—Thos, Trelease, Aug. 31: The lode in the 117 end is not so large as it was last week, but th has improved in quality; it is now 1 ft. 6 in, wide, and worth 5 cwts, per fathom. There is no change worthy of notice in the stopes at this level in the past week. I have put the men at the 50 to stope a piece of ground at this level.

NORTH GREEN HURTH.—Jas. Polglase, Aug. 25: The ground in the deep addit level is about the same as last reported. The vein in the north-east drivage is small, but producing good stones of lead. The shallow level cross-cut is without change. I have nothing of importance to report on any of the workings or prospects.

NORTH PENSTRUTHAL.—Stephen Davey, Aug. 29: I am pleased to inform

prospects.

NORTH PENSTRUTHAL.—Stephen Davey, Aug. 29: I am pleased to inform you we have an improvement in the 120 fm. level west. I broke from the end some good stones of tin. Other points looking kindly. More particulars in a day or two.

some good stones of tin. Other points looking kindly. Alore particulars in a day or two.

NORTH PENSTRUTHAL.—S. Davey, W. Polkinghorne, Aug. 31: We have resumed the sinking of Highburrow shaft below the 132, which will be sunk as fast as possible to reach the 144, where the junction of the north lode with Highburrow is expected to take place. We have no change to report in the 132 east or west. The men have been engaged outting plat and doing the other necessary work preparatory to sinking the shaft below, which is now completed. The lode in the 120 west is 5 ft. wide, composed of capel, quartz, mundic, and good stones of tin intermixed with yellow copper ore. The lode has very much improved in the last 2 or 3 ft. driving. There is no change worthy of note in the other points of operation.

proved in the last 2 or 3 ft. driving. There is no change worthy of note in the other points of operation.

OKEL TOR.—H. Bulford, J. Rodda, Aug. 31: We are proceeding with the cutting of the 50 plat with one pare of men, and have another pare employed about the skip-road. Stopes without change.

OLD GUNSISLAKE.—Wm. Skewis, R. C. Secombe, Aug. 30: We are pleased to inform you that we have a good improvement in the lode. We have out into it about 2 ft., and so far as seen it is principally composed of grey and yellow sulphurets, black oxides, and green carbonate of copper ore of a very rich quality, a sample of which assays 41% per cent. for fine copper. We think this of importance, as being near the great cross-course it leads us to believe that the Bonny lode will be found valuable when cut on the western side of this cross-course.

portance, as being near the great cross-course it leads us to believe that the Bonny lode will be found valuable when cut on the western side of this cross-course.

OLD SHEPHERDS.—R, Nancarrow, J. Nancarrow, Aug. 23: South Mine: In handing you our report, we beg to give the following details:—At Harvey's engine-shaft, which is our most important point, we find it very small in fixing our heavy pitwork, after dividing for winding and other purposes, being only 7½ it. by 5½ it., which has greatly impeded our progress in forking. Notwith-standing this we have succeeded in fixing a new 18-in, plunger-lift, 37 fathoms long, and dropped our bucket-lift 8 fms, below, and forked the water to this depth this morning, which is 45 fms, from surface. We are now preparing to drop again, and no time will be lost in forking deep enough for another plunger. The engine is doing its work admirably, and we are in a good position for draining the mine. The steam-capstan being completed is doing its necessary work. We have three whin-shafts in this part of the mine necessary to elar, to facilitate the opening out of the different levels, where it is said the hard part of the lode is left standing by the old workers, which would not pay them for working, as lead was then selling for about one-half the present price, and judging from the reports given we may reasonably expect good results before we reach the bottom of the mine. These three shafts—Teague's, Old Sump, and Sumy Corner—we found full of stuff and crushed very bad. Teague's we have cleared, and secured 20 fms., which is still full. Here we have friend a horse-whim and shaft tackie, which is started to-day, for taking away the stuff until the steam whim is ready to work. The house of this engine, which is a 25-in, cylinder, is started to build to-day, and no time will be lost in clearing up the other shafts. We are still clearing the adit levels cast and west on main lode, to take up all the water possible at this depth. In clearing these we find excellent stones of lead, a

progress is being made throughout the mine, which we hope will be satisfactory to the shareholders.

PANDORA.—H. Nottingham, Sept. 1: I have nothing new to report from underground this week, and the same valuations may be applied to the different bargains. We are now in a better position for getting stuff from the 45 since we have communicated the 33 winze, and laid down a good tramroad for delivering the stuff to the shaft. I expect to keep the crusher well supplied this month, and a larger sampling next time. The weather continues showery, and we have again connected the wheel and stopped the engine. Machinery all working well.

unuergrount this work, and the same valuations may be applied to the different bargains. We are now in a botter position for getting stuff from the 4s since we have communicated the 33 winze, and laid down a good tranroad for delivering the stuff to the shaft. I expect to keep the crusher well supplied this month, and a larger sampling next time. The weather continues showery, and we have again connected the wheel and stopped the engine. Machinery all working well provided the summary of the study of the st

are we say that the control of the c

level, is worth \$\frac{8}\$, per fathom. No change whatever in Nos. 2 and 4 stopes; sturstoping by the side of the lode. The stope on the Goodluck lode is worth \$\text{9}\$\text{t.} per fathom.

ROMAN GRAVELS.—Arthur Waters and Bon, Aug. 31: The end and stopes throughout the mi is are without change of note, and are producing lead ore in quantities equal to the averages reported during the last three months. The 110, the \$\frac{8}{5}\$, and the \$\frac{80}{5}\$, south of new shaft, are all three following each other into the south or principal runs of ore ground, but the latter forebreast is still about 20 fms. from the heart of the great bunch, and a long way from the south slade. The \$\frac{85}{5}\$ south is going forward on the big spar-lode, their being yet no sign of the shale. The stopes behind said end are worth together 2 tons of lead ore per fathom. The new boiler is being put into the house, and no time will be lost in getting the new compressors and rock-drills at work.

RUSSELL UNITED.—J. Bray, Aug. 31: Last Saturday being our pay and setting day the following bargains were set:—The cross-cut to drive north at the \$\frac{97}{1}\$, by six men, stented \$\frac{6}{2}\$ fms., or to cut the lode at 104. 19a. per fathom. The \$\frac{5}{2}\$ to drive east of the cross-curse, by four men, for two months, at 72. 19a.; lode \$\frac{3}{2}\$ ft. wide, of a promising character. To cut down \$\frac{3}{2}\$ fms. \$\frac{1}{2}\$ ft. for the new line of shaft to remove the bottom lift, with all timber and ladders at Stephen's shaft, by nine men, at 28\frac{1}{2}\$ bargain. The distance driven for the last two mouths:—The cross-cut north at the \$\frac{97}{2}\$ fm. level \$\frac{5}{2}\$ fms. \$\frac{1}{2}\$ ft. \$\frac{1}{2}\$ fms. 1 ft. \$\frac{5}{2}\$ in. \$\frac{1}{2}\$ ft. \$\frac{1}{2}\$ fms. 1 ft. \$\frac{5}{2}\$ in. \$\frac{1}{2}\$ fm. \$\frac{1}{2}\$ ft. \$\frac{1}{2}\$ fms. 2 ft. \$\frac{1}{2}\$ fm. \$\frac{1}{2}\$ ft. \$\frac{1}{2}\$ fms. 1 ft. \$\frac{5}{2}\$ in. \$\frac{1}{2}\$ fm. \$\frac{1}{2}\$ fm. \$\frac{1}{2}\$ fm. \$\frac{1}{2}\$ fms. 1 ft. \$\frac{5}{2}

an improvement at this point, as we are getting up higher towards the gossan. Machinery working well.

SOUTH CONDURROW.—W. Rich, W. Williams, H. King, Aug. 30: We are making good progress in enlarging Marshall's shaft below the 68. The lode in the back of the 68 east is worth 124, per fm. The 68 end west is worth 104, per fm. The 50 end west is worth 104. per fm. The 50 end west is in the north part of the lode; we intend to cut through it shortly. The 80 end, east of King's, yields low quality tinstone. The stope in the back of the 80 east is worth 124, per fm. The 70 end east is worth 124, per fm. The stope in the back of this level is worth 124 per fm. We hope to communicate the rise in the back of this level is worth 124. per fm. The 104 in the 60, east of Plantation shaft, is worth 84. per fm. The ground is easy for driving in the 50 east of King's, and the lode worth 84. per fm. The stope in the back of this level is worth 134. per fm. The 40 end east is worth 84. per fm. The 30 end west of engine-shaft is worth 154. per fm. The stope in the back of this level is worth 135. per fm. The 50 end west of single-shaft is worth 154. per fm. The 50 end west of the 126 end east is the lode in im. SOUTH DARREN.—H. James. Aug. 31. In the 120 end east the lode in im.

worth \$\( \text{st} \), per fm. The 30 end west of engine-shaft is worth \$15\$, per Im. The stope in the back of this level is worth \$20\$, per fm. The 20 end west of the crosscourse is worth \$12\$, per fm.

SOUTH DARREN.—H. James, Aug. 31; In the \$120\$ end east the lode is improving, worth at present I ton of silver-lead ore per fathom. The lode in the \$10\$ east, in a stope under Murchison's shaft, is looking very well, worth \$10\$ it ton of silver lead ore per fathom. All other points continue much the same in value's reported last week. We sample on Saturday \$5\$ tons of silver-lead ore, for sale \$50\$, \$5\$.

SOUTH DEVON UNITED.—W. Hooper, Aug. 31: The lode in the \$110\$, east of Brook engine-shaft, is fully \$5\$ ft. wide, worth \$6\$. per fathom, and from its general appearance we expect a still further improvement. The character of the lode is everything that can be desired for the production of large quantities of ore—in fact, has a much better appearance here than it had in the level above—the \$100\$. It has two well-defined walls, and the ground is similar in character to where all the large deposits of copper has been found in the mine. The stopes in the back of this fevel are worth respectively—No. 1, \$1. No. 2, \$10. No. 3, \$1. per fathom. The lode in the rise in the back of the \$0\$ against Martin's shaft is from 3 to 4 ft. wide, producing good stones of copper ore—a very kindly looking lode. This point is being pushed on with all possible dispatch. The stopes in the back of the \$0, east of Brook engine-shaft, are without change since least reported on, The lode in the adit level, west of Old Sump shaft, is \$4\$ ft. wide of a very promising character, producing gosans, spar, mundie, and occasional stones of copper ore. Pickstone's shaft is down 9 fms. below the 14 fm. level; the ground is of a beautiful description for sinking, and very sinking hos be being made.—Martin's Shaft: In consequence of alterations having to be made to the poppet-heads for the steam-whim the usual speed for sinking has not been made, ho

to the poppet-heads for the steam-whim the usual specific property well.

SOUTH PENSTRUTHAL.—Stephen Davey, Aug. 31: The cutting of the plat at Walton's engine-shaft, in the 83, has been completed, with the necessary timbering, &c. We have commenced sinking the shaft below the 83, where the lode is 5½ ft. wide, producing a little black oxide of copper. At the flat-rod shaft the men are engaged putting in bearers, cistern, and doing other necessary work for fixing a plunger-lift in the 130. The 60 is cleared so far west as Simmons's shaft, and we hope in a few days to get a communication to the 70, which will give good ventilation to this part of the mine.

SOUTH TOLCARNE.—Thomas Angove, Samuel Arthur, Aug. 30: In the 60 end west the lode is at present irregular, producing a little tin. The rise in back of this level is worth 6½, per fm. In the 60 end east the lode is large, worth 8½, per fm. The 50 end east is much improved, worth 12½, per fm. The 50 end west is worth 10½, per fm. We are making good progress with all our surface operations.

84. per fm. The 50 end east is much improved, worth 124. per fm. The 50 end west is worth 104. per fm. The 40 end east is worth 34. per fm. The rise in back of the 20 is worth 54. per fm. The 40 end east is worth 34. per fm. The rise in back of the 20 is worth 54. per fm. The 40 end east is worth 34. per fm. The 1032 west of Watson's lode, on north 104e, is worth 15 cwts. lead ore per fathom. The 104e east is also worth about 15 cwts. per fathom. We have now opened on the lode here for about 3 fms. in length, but have not yet reached the dip of the ore deposits east or west from which we have been getting most of our returns in the 220 the last six months or so. These will be cut into in due course. The 232 cross-cut south is (we calculate) up to within about 9 ft. of Tankerville lode proper, and every effort is being made to intersect it as soon as possible. The winze in 220, 5 fms. west of shaft is down 2½ fms.; lode worth ½ ton per fathom and improving. The stope in back of this level is worth 20 cwts. per fathom and improving. The stope in back of this level is worth 20 cwts. per fathom of 120 west, on main lode, is worth 15 cwts. per fathom. The stope and rise in this level east are worth each 20 cwts. per fathom. The 192 end west and the stope following it, on north lode, are worth together 12½ tons per fathom. Other points as for some time past.—Pennerley: The 120 west, on Warm Water lode. is worth ½ ton per fathom; lode 4 ft. wide. The 30 west, on this lode, is holed to No. 2 cross-cut driven by the late company, and we have commenced driving west of it towards the shale lode in present end 6 in. wide, yielding stones of ore. The stope in roof of axid level following the end is worth 25 cwts. per fathom. The 80 east, on Big Ore lode, is now within about 10 fms. of Biand's shaft, and we hope soon to cut the run of ore ground followed by the late company in sinking that pit or shaft. There are seven pitches in this part of the mine. Potter's Pti: We have been underground here to day, and can only say that

New machine jiggers, classifiers, and round buddles will be ready to work this week. We have given them a trial, but there are some small water-pipes being fixed to make our arrangements complete, which it is expected will be in order to-morrow.

THEGEMBO.—Edward Chegwin, Aug. 24: The ground at the engine-shaft continues favourable for sinking, and from what I have seen to-day I think we shall sink over 2 fms. this month. The water continues much the same as during the last few months. In the adit end, driving east of Pinnick's shaft, on Tregembo lode, the tin lode is 4 ft. wide, and worth fully 252, per fm. Since passing the crossing, as ment-ined in my last report, we have come across another crossing, about 4 ft. east of the first. Since passing the latter the lode has very much improved, and is stronger to-day than for some time past. In the adit end, driving west on new south lode, the lode is 1 ft. wide, worth for copper ore 104, per fathom. All surface work is being pushed on with the utmost speed.

THESAVEAN.—Joseph Prisk, Wm. Edwards, Aug. 23: The 90-in. engine continues to work well, and we shall in a few days be forking rapidly below the 23. The 60-in. plunger-life is fixed at the 30, and will be working by the time this reaches the office, after which we shall soon be in a position to drop another 10 fms. The 24 heads of stamps are working well, and have been stamping a week on low class stuff, in order to well staunch the floors. This week we have commenced to stamp good tinstuff from the stock on the mine, and are pleased to say it is coming from the stamps quite up to our expectations. We have four buddles in full working order, and two others are being proceeded with as fast as possible. The transmoad tothe stamps in near completion, and will be set to work by the end of the week. This has been delayed, owing to the smiths having so much work for the stamps and the plunger at the 50.—Wheal Boys: The lode in No. 3 stope, in the back of the shallow addit east of shaft, is 7 ft. wide, and worth 204

paracter.

VAN CONSOLS AND GLYN.—J. Roach, D. Douglas, Aug. 30: Intermediate
val. driving east from top of rise above 50. on south part of lode in No. 1 stope, VAN CONSOLS AND GLYN.—J. Roach, D. Douglas, Aug. 30: Intermediate level, driving east from top of rise above 50, on south part of lode in No. 1 stope, is producing 2 tons of lead per fm. Sole of level worth 3 tons per fm., stope in roof 2 tons per fm. Stope under 40, on south part of lode, is worth 1½ ton per fm.; ground in middle of stope above the 40 is producing 18 cwts, per fm. No. 2 stope, 15 cwts, per fm. The 50 proper, on south part of lode, should be extended under the ore alluded to in intermediate level. It is now about 3 fms. behind it. There are strong cubes of lead in the breast of ground. We have a pass completed to within 9 ft. of the 50, as soon as finished it will be very advantageous in discharging stuff from most of our operations. We have fully 12 tons of lead raised, which we shall add to rapidly.

WEST OARADON.—N. Richards, Aug. 30: The stopes in the back of the 50 on Vivian's north lode will yield together from 2 to 2½ tons of copper ore per fathom. A rise in the back of the 30 on this lode will yield 2 tons of ore per fathom. Taylor's lode in the rise in the back of the 33 will yield 1 ton of copper ore per fathom. Taylor's lode in the adit, west of main cross-course, is producing stones of ore. This lode in the adit, west of main cross-course, is producing stones of ore. This lode in the adit, west of main cross-course, is producing stones of ore. This lode in the hather of the work will admit.

WEST CRAVEN MOOR.—David Williams, Aug. 31: To-morrow being our

WEST CRAVEN MOOR.—David Williams, Aug. 31: To-morrow being our measuring and setting day, a full report will be sent next week. I may, however, aid that our principal points of operation here have much improved during the past month.

using the past month.

WEST CREBOR.—J. Andrews, Aug. 30: There is little or no change in the lode in the shaft sinking below the 50 during the past week, which continues to yield good quality arsenical mundic and stones of copper ore. The lode in the 50 west has rather improved, and is now 2 ft. wide, with a leader 4 in, wide in the north part of good quality of copper ore. The lode in the 50 east is 2½ ft. wide, composed principally of capel, prism, mundic, and copper ore, but not sufficient to value.

WEST DEVON GREAT CONSOLS.—George Rowe, Aug. 30: The engine shafe is down, including the fork, a sufficient depth to commence the drivage on the course of the lode at the 35 fm. level; both drivages, east and west, in cluding plats, are let to a full staff of men at 8t. per fathom.

WEST GODOLPHIN.—T. Hodge, Aug. 30: The rise in the back of the 50 fm. level is communicated with the 50, which has well ventilated the levels, and opened up a piece of stoping ground. The stope in the back of the 50 is worth 144, per fathom. No other change.

WEST KITTY.—W. Vivian, Aug. 31: The 50 driving east. The lode has improved in the past week; now worth over 161, per fathom. There is no change to notice in the other points of operation since last week.

WEST LISBURNE.—Wm. Northey, Aug. 30: A portion of the iron for the rods has been delivered; the smith and a set of men are busily employed in making the same, and the carpenter in erecting the stands, rofs, and balance-bob, &c. I hope to get the line of rods, bobs, and connections in a forward state towards completion within a fortnight, when no time will be lost in draining the mine by the aid of water-power and placing the mine in good working order and in a remunerateve state.

WEST PATELEY BRIDGE.—D. Williams, Aug. 31: The 56 has been extended north-west upon new vein during the past month 4 fms. The vein in the end is 2 ft. wide, carrying spar, gossan, and stones of lead ore, but not sufficient to value. The rise in back of level is up 7 fms., and producing good saving work for dressing. Other points without change. We have a parcel of ore in course of smelting.

or dressing. Other points without change. We have a parcel of ore in course of amelting.

WEST VOR AND LEEDS.—S. Harris, Aug. 31: The winze is down about 2 fms. on the Sosen lode: the lode is fully 5 ft. wide, full of mineral, including tin, copper, and lots of mundic—a lode enough to warrant any outlay required to develope it

WEST WHEAL TOLGUS.—Jno. Gilbert, Aug. 31: The lode in the 105, west of Richard's shaft, is 6 ft. wide, and yielding 4 tons of copper ore per fathom, and still letting out a large quantity of water very freely. All the other places in the mine are just the same as when last reported, except the No. 1 stope in the back of the 105, which has declined a little in value, now worth 3½ tons of ore per fathom.

about 2 ft. wide, of a most congenial character. We are now sinking on this, and we hope soon to report something good in connection therewith. We think of cross-cutting from this for the copper lock.

WHEAL PRUSSIA AND CARDREW UNITED.—J. Pryor, Aug. 30: The water is now in gook about 2 fms. under the 80, and but for a slight breakage on Monday night I think we should have been to the 90 ere this; however, we are now in good working order, and hope to be able to drop again to-morrow. In consequence of being obliged to stop the engine to repair the breakage referred to we have not made much progress in clearing the 80. We hope to resume the clearing this afternoon. We have cleared the 70, west of engine-shaft, for over 180 fms., and have put a pare of men to dive the end west on the thi lode; the lode is from 4 to 5 ft. wide, producing fair quality tinstuff. The lode in the 30 west, north of engine-shaft, is just the same as last reported. The men are making fair progress in extending the cross-cut north of engine-shaft, but we have not cut anything fresh since the meeting. All the points of operation on the Prussia lode are maintaining the same value as last reported.—Allan s Shaft: I am very pleased to say that this shaft is now completed to the 40, under adit, rolls fixed, and shaft bed planked, &c.; wa have also creates the poppet-heads, pulley-stands, &c., and put the drawing-engine to work, and in a day or two intend to draw the tinstuff from the 40, 50, and 60 fm. levels, &c., and also clear the shaft below the 50 to the 70 or bottom level. As soon as this is done we shall be in a position to thoroughly test the value of the tin lode, as in the course of a few days a quantity of tinstuff can be sent up from the various levels. This work is being pushed on with all speed. All other work progressing attifactorily. WHEAL UNY.—W. Hambly, W. Prophet, J. White, Aug. 31: Every effort is being made to get down Hind's engine-shat below the 182. In cutting the trip-plat at the 182 were found the lode to be about 15

Amo Kill provacco At t of I stat wal the Kit life to I

this level is now up 7 ft., and worth 10!. per fathom for tin. Stope in the back of the above level worth 10!, per fathom. The 172 west is worth 22!, per fm., and the lode in the present end equal to any pert yet passed through. The rise in the back of this level and about 3 fathoms back from the present end is new up 3½ fathoms, the lode at this point is worth 18!, per fathom. Three stopes in the back of the above level worth 16!, 18!, and 20!, per fathom respectively. The 160 west is worth 6!, per fathom, and looks likely to improve. The stope in the back of the 180 east of Hind's, is worth 13!, per fathom. All the point underground, as well as the work at surface, is being pushed with all speed, and we consider the same is progressing very satisfactorily.

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IRON. £ s.d. £	e. d.	
	m, G.	TIN. £ s. d. £ s.
	mine	English, ingot, f.o.b106 0 0
Scotch, all No. 1 2 11 0-	-	, bars ,107 0 0
lars, Weish, f.o.b. Wales 5 12 6-	<b>House</b>	refined 108 0 0
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, Swedish, London10 0 0-	-	Сорркв.
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heets, Staff., in London 8 10 0-	-	Best selected 73 0 0- 74 0 0
lates, ship, in London . 9 0 0-	0000	Sheets and sheathing, 78 0 0- 79 0 0
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fail rods, Staff., in Lon. 7 0 3-		Wallaroo 72 0 0
STEEL.		Burra, or P.C.C 71 0 0
ingitsh, spring 12 0 0-1	8 0 0	Other brands nom. 66 0 0- 68 0 0
cast30 0 0-4		Chili bars, g.o.b 67 10 0
wedish, keg15 0 0-	_	QUICKSILVER.
, fag. ham15 10 0-	-	Flasks, 75 lbs., war 5 17 6
tails, at works 5 15 0-	-	PHOSPHOR BRONZE.
Light, at works 7 2 6-	Torus	Alloys I., II., III., and IV £125 0 0
LEAD.		WY and WYY 140 0 /
inglish, pig, common., 14 2 6-1	1 50	XI., Spl. bearing metal 117 0 0
T 10 14 7 6 1	4 10 0	BRASS.
WV 11 14 15 0-1	5 0 0	Wire 716d
sheet and bar 15 5 0-	- 00	Tubes 914
pipe15 15 0-	_	Sheets 7½
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milita 10 10 0 0		
,, white19 10 0-2		
patent shot17 5 0-	4 0 0	Charcoal, 1st quality 1 1 0- 1 2
NICKEL. 13 17 6-1		Coke, 1st quality 0 19 0- 1 0 (
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ore 10 percent, per ton.20 0 0-2	5 00	Black per ton 15 10 0
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English Swausea17 10 0-		Diack Thereare 450 of
heet zine20 15 0-2	1 0 0	

\*At the works, is, to is, 6d, per box less for ordinary; 10s, per ton less for Oanads; IX 6s, per box more than 10 quoted above, and add 6s, for each X. Te ne-plates 2s, per box below tin-plates of similar brands.

REMARKS.—Without any particular variation in the general state of the metal market, business during the past week has continued extremely quiet, and with the exception of some few fluctuations in the prices of those metals where speculation exists, steadiness has been the general characteristic feature. In iron buying of Scotch pigs has been rather more animated than what it was last week, more particularly so the early part of this week, but in other metals operators seem to have been at times more inclined to sell than to buy, which may be accounted for by circumstances which adversely affect the separate markets by themselves rather than by any general detrimental event which influences the whole trade, and to these we shall more fully refer in our remarks on the various metals; here it is sufficient to state that they have in some instances produced an easier tendency to prices, accompanied with less disposition on the part of buyers to make purchases, even at the slightly more favourable rates for them that have been quoted. There are, however, one or two events which affect trade in general, such, for instance, as the enormous American crops, which promise well for an increase in business with that country; but counterbalancing this there is the checking influence of the fear of dear money during the autumn, for, irrespective of what may be required for military affairs, the very fact of the bountful American harvests may possibly be the cause of some stringency in the money market, and more especially as the New York banks are said to have but low reserves.

We do not mean to infer that any slight rise in the value of money would

market, and more especially as the New York banks are said to have but low reserves.

We do not mean to infer that any slight rise in the value of money weuld prove very injurious to trade; it might even have the opposite effect, and prove altimately beneficial, in that it would, probably, deter rash speculation, and thus diminish the chances of trade infastion; and, further, it might even have the effect of atimulating regular trade, providing, of course, it did not become too much enhanced, because it would partially be the means of inducing weak holders to press sales, and thus not un thely cause prices to recede, which in its turn would, doubtless, tend to augment bown fide trade. It may, however, be a matter of time before any real revival sets in. Business at the present time is quiet, for shipment particularly so, and there seems no immediate prospect of a general resuscitation in the trade, but after a while a recovery may, probably, take place, and the longer it is delayed the more thorough and substantial is it likely to be when it does begin.

In the meantime it is difficult to discover the probable tendency of prices. So much depends upon the action of speculators, for when regular trade is quiet they have the chief control over the market, and during the past week, notably in the case of tin, there has been the evidence of what an immense influence their movements have upon prices. Many a sanguine expectation has been formed with regard to the future of the market, some even going so far as te

look for a repetition of the American "boon" of 1879; but at the same time that while there is much in prevailing events to encourage business and stimulate the demand, yet there is also many a feature in commercial, political, agricultural, and financial affairs which must be viewed with considerable anxiety, and upon which the future of the markets must, to some extent at all events, be adversely influenced, and it can only remain to be seen whether those events favourable to an advance in prices will outweight those of a reverse nature.

COPPER—This market has remained quiet and prices for the most part steady, although at the commencement of the week quotations for Chili bars were easier. New orders for manufactured are not very plentiful, but at the same time manufacturers for the most part report being busily occupied with the old contracts, and consequently firmness characterises the market. The market on Monday was to some extent weakened by the announcement that the Chili charters for the last half of August were 2200 tons, which quantity being considered heavy had a depressing influence upon the market, especially as the quantity advised for the fore part of that month was likewise large, making the total Chilicharters for the month of August 4700 tons. Naturally enough, any chance of increased supplies has an injurious effect upon prices at the present time, for already the total imports for the first seven months of this year are much in excess of the corresponding period of last year, while the exports for the same time show a failing off, so that it is evident that it requires some considerable increase in the consumption to prevent stocks from being greatly augmented. Although prices of Chili bars were weakened on Monday and Tuesday, through the foregoing affect, yet on Wednesday they stiffened slightly, recovering as much as they had lost during the two previous days, which shows that notwithstanding that there is quietude in the demand, yet at the same time holders for the most part are not dis

IRON.—This market remains, on the whole, rather quiet, and although prices for the most part are steadily maintained, yet general orders are scarce. Some few good contracts have been made for shipments to the United States, and this has tended to implant strength to the market; but, taking the trade as a whole, it must be reported as the reverse of brisk. Shipping orders for India are particularly limited, not for any one particular description of iron, but enquiries for all classes of manufactured are few, and for small quantities. The London trade throughout is dull, and notwithstanding that at some of the manufacturing centres a fair amount of briskness is said to exist, yet quietude must be considered the principal characteristic feature, or at all events so far as the manufactured iron trade is concerned. The reports of the pig-iron market, however, are more satisfactory and promising, for they show that that particular branch of the trade is in a sound and healthy condition, both as regards the home demand, which is good, and shipments, which figures show to continue on an extensive scale. Another favourable feature, to which the following returns testify, is a further reduction in the total visible stocks, and with the combination of these favourable features it is not surprising that at the beginning of the week there should have been rather more disposition to effect purchases in Scotch p gs. This little extra buying was the means of pushing up prices to some slight extent, but the market has been rather fluctuating.

In makers iron a moderate business only is reported to be transacted, but in quotations there is little or no alteration to have to record. On Wednesday the scotch makers refused to continue the restricted make, and this accounts for the reduced prices quoted on that day. The Glasgow warrant market opened this week with more desire being evinced to effect purchases, and a very fair business was done from 5cs. 2½d. to 50s. 5½d. cash, while on Tuesday the price continued to advance to 50s.

in blast now than last week, the total being 109, and the public stock has been further reduced to 650,005 tons, against 630,588 tons last week, or a reduction of 583 tons.

The imports of Middlesborough pig-iron into Grangemouth last week were 3760 tons, against 8107 tons for the same time of last year, being a decrease of 4347 tons, and which leaves a total decrease for the whole of this year compared with last of 49,711 tons. At the early part of the week the Cleveland market was much firmer, and with a slightly extra demand some very fair sales were made, the price for No. 3 being quoted up to 448. 3d. 448. 4dd. Makers price is 448. 5d., and warrants are held for 49s. Statistics show a further slight reduction in the total visible stock, which has now been reduced by a further 370 tons. About the most satisfactory feature in connection with the trade is the continuance of very good shipments, the exports from Middlesborough last month being about 57,000 tons. The manufactured trade remains without fresh feature, bars and angles continuing to rule at 6d. 5s., and ship-plates at 6d. 15s. to 7d. per ton. The market at Wolverhampton is said to remain very firm, sheets being especially strong, and manufactures are said to meet with considerable difficulty in giving prompt delivery, which buyers generally stipulate for when ordering. The general quotation for singles is 8d. 5s. to 8d. 10s., and for doubles 9d, and trebles 10d. to 10d. 10s.

There is rather a limited supply of hematite pigs, and prices are in consequence slightly stiffer, while Barrow qualities have advanced 1s. 3d., making the present figure 70s. per ton. In other descriptions no alteration is to be reported either as regards the prices that are being quoted or the state of the demand. The Birmingham market is said to be fairly steady, but transactions are not particularly numerous, either in manufactured or the raw material, buyers in many instances limiting their purchase merely to the most pressing requirements of the day, while prices all rou

onsiderable fluctuations having to be recorded from day to day. In so speculative a market it is quite impossible to foresee in what direction the movement of prices is likely to tend, and therefore we can only watch the numerous movements as they occur, for those events which in an ordinary way might be expected to bear an important influence upon the market have now but little effect, the chief attention being placed upon the movements of the principal operators. On Monday last the market was very languid, and but very little disposition was evinced to make purchases, and the quoted price was only 92. 5s. to 94. 15s., while even 194. was at one time accepted during the early part of the day. On Tuesday prices estiffened to some extent, and 93. 7s. 6d. to 92. 17s. 6d. was the official quotation. On Wednesday, perhaps owing to the Batavia sale having realised a satisfactory figure, the market here became very active, and prices in course of the day were quickly run up to 1014. 10s. sharp cash, when a slight reaction ensued, and vesterday a less extensive business was transacted, and the price remained fairly steady during the morning, but improved during the latter part of the day, 1011. 17s. 6d. having been paid. This morning the market opened steady, the demand being rather quiet, but it has since stiffened to some extent, and quotations advanced to 1021. 7s. 6d., the closing figure for the day being 103. The deliveries last month were 1894 tons in London and Holland, against 1802 tons in July. The total visible stock here and in Holland yesterday was 10,901 tons, against 11,598 tons on July 31; but the stocks in America have increased, being 3830 tons, against 2840 tons, including the quantity afloat, and which makes the total visible stock—14,731 tons against 14,435 tons. The shipments from Straits to London last month were 100 tons, and from Australia 475 tons, and those from Straits to America 1175 tons, and from Australia 475 tons, and those from Straits to America 1175 tons, and from Australia 475 tons,

SPELTER. - Market steady, and a moderate business doing; good

ordinary brands are quoted at 17t. to 17t. 2s. 6d. per ton.

LEAD.—Sellers of Spanish at 14t., and buyers at 13t. 17s. 6d.;

English, 14t. 2s. 6d. to 14t. 5s.; at the latter price there are sellers.

STEKL.—A moderate business is doing at fairly steady prices.

TIN-PLATES are without new feature, either as regards the de-

QUICKSILVER.—A better business without change in price.

INSURANCE SHARES have, according to this evening's report of Messrs. W. L. Webs and Co., of the Stock Exchange and Finch-lane, been dealt in as follows:—British and Foreign, 224; City of London Fire, 1¼; Employers' Liability Association Corporation, 2¾; Rock Life, 8¾.

GAS SHARES.—The principal business in these shares, according to this evening's report of Messrs. W. L. Webb and Co., of the Stock Exchange and Finch-lane, has been :—Commercial, 198 to 197; Continental Union, 25 to 25½; Gas Light and Coke, A (ordinary), 170½ to 173; ditto C, 10 per cent. pref. 218 to 218½ ditto H, 7 per cent. max., 130½ to 132; ditto 4½ per cent. Debenture, 104½; Imperial Continental, 193 to 196; London, 213; ditto First Pref., 139; Monte Video, 12½; illo de Janeiro 25½ to 25½; South Metropolitan, A, 2032.

TRAMWAYS.—The closing prices of this evening, as quoted by Mr. W. Abbort, of Tokenhouse-yard, are given in tabular form in the last page of the Journal.

Messr. PIXLEY and ABELL.—Gold: With the exception of a moderate order for India, there has been no demand for bars for export, and the arrivals, consisting chiefly of sovereigns, have been sent into the Bank to the value of 255,000l. Withdrawals of sovereigns for Egypt have taken place to the extent of 161,000l. The Austral has brought 118,00l. from Melbourne; the Medway 40,000l. from the West Indies; the Washington 49,700l. from the West Indies; the Guadiana 1870l. from the Brizils; total, 209,460l. The P. and O. steamer has taken 214,000l in coin and bars to Egypt and India. The City of Berlin, which left New York on 26th inst, is bringing 58,000l for London.—Silver: The market has been steady at the quotation of last week—21/gd. per ounce—at which rate all arrivals up to this date have been sold. There are no orders on Continental account at present, and we do not think the above price is firm. The Kepler has brought 2550l. from River Plate, the Medway 40,000l. from the West Indies; the Herschel 37,530l. from Buenes Ayres; and the Donau 52,67ll.

from New York: total, 127,7501. The P. and O. steamer has taken 76,0001, to India.

The settlement of the fortnightly account has occupied the chief attention of the dealers in the MINING SHARE MARKET this week,

The settlement of the fortnightly account has occupied the chief attention of the dealers in the Mining Share Market this week, and very little business has been transacted either for cash or account, quotations, therefore, are mostly nominal. The shares dealt in have included Wheal Agar, Killifreth, Tincroft, East Pool, West Kitty, Blue Hills, North Blue Hills, Polrose, West Crebor, Wheal Kitty (St. Agnes) Prince of Wales, and a few others.

Tin does not show any improvement, and there is not much alter ation in shares since our last. On Wednesday the smelters reduced the standards for ore 3l. per ton. Blue Hills are quoted 1 to 1½; Carn Brea, 10½ to 11; Dolcoath, 74½ to 75½; Drakewalls, ½ to ½; East Blue Hills, 9s. to 11s.; North Blue Hills enquired after at 3s. to 5s.; tin has already been discovered, and the prospects good. East Pool, 55 to 56; East Lovell, 1 to 1½ (call paid); Killifreth, 5½ to ½; Kit Hil. ½ to ½; South Condurrow, 9 to 9½; South Frances, 11 to 12; Tincroft, 12 to 12½; West Basset, 9½ to 10½; West Frances, 9½ to 10; West Peevor, 12 to 13; Wheal Agar, 18 to 18½ Wheal Basset, 10 to 10½; Wheal Jane, ½ to 1½; Wheal Kitty (St. Agnes), 1½ to 2; Wheal Peevor, 6 to 7; Wheal Uny, 5 to 5½ Cook's Kitchen, 41 to 43; this mine is said to be opening out one of the finest courses of tin in the county. The 345, or bottom level, is being driven by boring machinery through a lode worth 1 cwt. of tin to the ton. The junction of Chappel's and Dunken's lode is producing the same results here as in the neighbouring mine, Dolcoath. Wheal Grenville, 10 to 11; the accounts for the meeting show a profit on four months' working of 1499t. The tin sold—120 tons—realised 7194t, and the costs are charged up to Aug. 12. For the coming quarter the agents hope to return the same quantity of tin—30 tons a month. Wheal Coates, 5s. to 10s.; at the meeting the accounts showed a cash balance in hand of 779t. The tin ore sold—27 tons—realised 1688t.

West Kitty, 13½ to 14; the lode in the 60 east has improved, worth 16t. per fath

counts showed a cash balance in hand of 779l. The tin ore sold—27 tons—realised 1688l.

West Kitty, 13½ to 14; the lode in the 60 east has improved, worth 16l. per fathom, and the 72 looking better. Trevaunance, 2½ to 2¾; the report here shows an improvement. West Godolphin, 1½ to 2; Wheal Jewell, ½ to ½. Polrose, 4s. to 6s.; the lode in the shaft is now 3 ft. wide, and with tin that will pay to stope when a level is driven. New Trumpet, 1 to 1½. Tregembo, 3½ to 3½; lode in adit end east has improved to 40l. to 50l. per fathom for tinstuff; worth 1 cwt. of tin per ton. Phænix United, 3 to 3½; at the meeting the accounts showed a profit of 1174l. on the four months' working, a credit balance of 1246l. 13s., and a dividend of 2s. per share, 1200l. was declared. The sales of tin and copper realised 10,528l., and it is hoped that dividends will increase.

COPPER does not improve, and there has been scarcely any business doing in shares. At the Cornish Ticketing, on Thursday, there was no alteration in the standard. The average price of the ore sold was 3l. 18s. per ton. Bedford United, 2½ to 2½; Carnarvon Copper, ½ to ½; Pevon Great Consols, 5 to 5½; Devon Great United, ½ to ½; East Caradon, ½ to ¾; Langford, ¾ to ½; Mona, 4½ to 5; Mona Consols, 1 to 1½; Sortridge, 4s. to 6s.; Gawton, 8s. to 10s.; New West Caradon, 2s. to 4s.; Parys Copper, 7s. 6d. to 10s.; Prince of Wales, 7s. to 9s.; South Devon United, ½ to 1 West Caradon, ½ to ½; mine rather improved. West Crebor, 7s. 6d. to 10s.; the 50 west has improved; lode 2 ft. wide, with a leader of ore 4 in, wide. West Devon, 5s. to 10s.

West Seton, 174 to 18½; West Tolgus, 18 to 20. New Cook's

West Devon, 5s. to 10s.

West Devon, 5s. to 10s.

West Seton, 17½ to 18½; West Tolgus, 18 to 20. New Cook's Kitchen, 6 to 6½; the two ends, the 148 and 160, will each turn out 6 tons of good copper ore per fathom. Gunnislake (Clitters), 3½ to 3¾; a circular has been sent round to the shareholders notifying an improvement in the lode, which has been cut into 2 ft., and so far a sent lower to the control of th improvement in the lode, which has been cut into 2 ft., and so far as seen with some rich ore, a sample of which assayed 41½ per cent. The sampling on Friday was 426 tons of copper ore, of about the same quality as the last. Mellanear, 4½ to 5½; the sale of ore on Thursday realised 2241*l*. Devon Friendship, 5s. 6d. to 6s. 6d. The 30 east is improving, now worth full 9*l*. per fathom; rise in back worth 9 tons of arsenical mundic per fathom. North Penstruthal, ½ to ½; South Penstruthal, ½ to ½;

east is improving, now worth full 9l. per fathom; rise in back worth 9 tons of arsenical mundic per fathom. North Penstruthal, ½ to ½; South Penstruthal, ½ to ½.

LEAD.—Very little business has been transacted in shares, and prices are nominal. Vans are quoted 5½ to 6; Great Laxey, 17½ to 18½; Roman Gravels, 8½ to 9. Tankerville, 4s. 6d. to 5s. 6d.; at Potter's Pit there is a discovery, the lode in places being worth 2 tons per fathom. At Bog the new buddles, classifiers, &c., will be ready to work this week. East Roman Gravels, 10s. to 15s.; the rise in the 97 is worth 1 ton, and the two stopes in the 86 are valued together at 2½ tons. South Darren, 15s. to 17s. 6d.; the lode in the 120 east has improved to 1 ton, and the stope in the 110 east 1 ton per fathom. Frongoch, 1½ to 2; the sale of blende, 100 tons best, realised 3l. 3s. 6d.; second quality, 50 tons, 2l. 15s. 6d. Goginan, ½ to 1½; Grogwinion, ½ to 1½; Strogwinion, 3 to 1½; the mine samples 20 tons of lead ore this week. At Kirk Michael meeting (particulars of which will be found in another column) a resolution was passed to issue 400 debentures of 5l. each, with interest at the rate of 10 per cent., and each holder of a 5l. debenture to have the option for 12 months of taking five of the unissued shares at a discount of 10s, per share. Capt. Rowe estimates the lead ore laid open in the mine, calculating the lode at ½ ton per fathom, at 300 to 400 tons, which would work at a profit should lead rise to 10l. per ton. At 8l. and 9l. per ton he thought it useless to raise it. It is stated in the report that in another 10 fms. sinking the junction of the lodes from which such great results have been locked for may take place. This may occur. thought it useless to raise it. It is stated in the report that in another 10 fms. sinking the junction of the lodes from which such great results have been looked for may take place. This may occupy four months, and cost 300% to 500% to 500% Coed-y-Fedw, 1 to 1½; Gwernymyndd, ½ to 1½; Gorsedd and Merllyn, 2½ to 3; Great Holway, 5 to 5½; Leadhills, 3½ to 3½; Pennant, 4½ to 5; Pen-yr-Orsedd, 10s. to 20s.; Sinclair, 1 to 1½; West Holway, 1½ to 1¾; West Lisburne, ½ to 1. # to 1.

to 20s.; Sinciair, 1 to 1½; West Holway, 1½ to 1½; West Lisburne, ½ to 1.

Foreign Mines.—Akankoo, ½ to ½; Alamillos, 1½ to 2; Almada and Tirito, ½ to ¾; Angle-African Diamond, ¼ to 5; Broadway Gold, 1½ to 2½; Birdseye 1½ to 1½; Canadian Copper and Sulphur, ½ to 1½; Cape Copper, 50 to 52; Chile Gold, ½ to ½; Colorado United, 1½ to 1½; Copper, 50 to 52; Chile Gold, ½ to ½; Colorado United, 1½ to 1½; Frontino and Bolivia, 2½ to 2½; General Mining, ¼ to 5½; Indian Consolidated, ½ to 2½; General Mining, ¼ to 5½; Indian Consolidated, ½ to ½; Indian Glenrock, 11-16th to 13-16th; Indian Phoenix, 1½ to 1½; Indian Trevelyan, ½ to ½; Kapanga, ½ to ½; La Plata, 2 to 2½.

Mason and Barry to bearer, 17 to 17½; Mysore Gold, 7-16ths to 9-16ths; New Quebrada shares, 4 to 4½; Nouveau Monde, ½ to ½; Panulcillo, 6½ to 7; Pontgibaud, 11 to 13; Rhodes Reef, ½ to ½; Richmond, 9 to 9½; it is reported that the furnsces are to be shut down until the spring, and attention turned to systematic exploration. Rio Tinto shares to bearer, 25½ to 26; Ruby and Dunderberg, 2 to 2½; South-East Wynand, 2½ to 3½; Wentworth, ½ to ¾.

Organos Gold, 3½ to 4. Bratsberg, 1½ to 1½; the net weight (21 cwts. per ton 2887. 1s. 3d). The net weight of the cargo by the Via is 176½ tons, which have fetched the same price—namely, 13%. 17s. per ton. St. John del Rey, 160 to 180; Tolima, 2½ to 3½; Placerville, 1 to 1½.

The market for mine shares on the Stock Exchange shows no material change as compared with last week. There is no sign of ani-mation, yet a considerable number of transactions have been carried through. The drop of 3l in the tin standards does not seem to have had any adverse effect upon the price of tin mine shares, and in some cases there has even been a slight rise. The issue of the presome cases there has even been a signt rise. The issue of the pre-spectuses of two new companies during the week—that for working a keadwin's secret gold extraction process, and one for working a valuable property in Colombia—are perhaps the best evidence that the market is considered in a healthy condition, especially as it is announced in both cases that the placing of the whole of the capithas been assured.

Our usual telegram from Cornwall this evening states that during

the early part of the past week the Cornish mine share market was rather dull, tin being weaker, the Cornish smelters reducing the stan ards 32, per ton on Wednesday; the prices of tin, however 152,6777. ra'li d, causing the market for tin shares to become much stronger

Among the principal shares dealt in were Dolcoath, East Pool, Killifreth, South Condurrow, Tincroft, and Wheal Basset, an improvement having occurred in the latter mine. The Wheal Grenville account is fixed for next Thursday, a 5s. dividend being probable. At the Phonix and West Phonix United meeting yesterday a profit of 1200L was reported, a 2s. dividend being declared. The agents stated that the mine would compare favourably with any in Cornwall. At Redruth yesterday 843 tons of copper ore realised 3278L, the standard remaining unaltered. Carn Brea, 11 to 11½; Cook's Kitchen, 43 to 43½; Bolcoath, 75 to 75½; East Pool, 55 to 55½; Killifreth, 5½ to 5½; Condurrow, 9 to 9½; Crofty, 11½ to 11½; Tincroft. 12 to 12½; West Kitty, 13½ to 14; West Tolgus, 19 to 20; Agar, 18 to 18½; Wheal Basset, 18½ to 18½; Wheal Uny, 5½ to 5½. In Indian gold mining shares there has been a fair amount of dealing, but there is no important change in price. There is still that absence of remittances from the mines which has been so long complained of, and the reports generally are by no means encouraging. But little attempt to prove the auriferous character of the reefs appears to have been made, and it almost seems that, practically speaking, operations have to be commenced de novo after each monsoon, unless, indeed, the monsoon be a convenient excuse for failing to make returns. The prospects of the Indian gold mines

practically speaking, operations have to be commenced de nove after each monsoon, unless, indeed, the monsoon be a convenient excuse for failing to make returns. The prospects of the Indian gold mines are at present at least anything but reassuring.

The Gold Amalgamating Company, with a capital of 150,000l, in shares of 1l. each, has been formed to purchase for \$2,000l. (of which 25,000l. is to be taken in cash and the rest in fully-paid shares) Mr. Readwin's patent for the Britten-Readwin pan, the works at East Graenwich, and his secret for preparing mercury to prevent its sickening when used in the separation of free gold from arsenides, sulphides, tellurides, &c. The patent machinery is ingeniously designed, and is declared by Messers. W. Lloyd, Wise, and Edward Field to embody patentable features of novelty of considerable practical value in such a machine. As to the secretly prepared mercury, it is, of course, impossible to pronounce an opinion until a sample has been chemically or otherwise examined by practical analysts; and it is a satisfactory feature in the prospectus that no allotment is to be made until the directors are satisfied as to all points connected with the secret. As the name of Frederic Browne (of Browne and Wingrove, the well-known melters and refiners) stands first on the list of directors, and Stewart Pixley (of Pixley and Abell, the buillion brokers) is also on the board, the public may reasonably hold them responsible for ascertaining, before parting with shareholders' money, that the secret preparation's valuable for the purpose professed, and of commercial value—that is to say, of such a character that users will require to buy it of the company rather than analyse it and manufacture it for themselves. Mr. Readwin has throughout courted the most searching investigation, and it can scarcely be supposed that such men as Messra. Browne and Pixley would accept the responsibility they have without mature consideration. It is anticipated that much low grade or and tailings which are now

can be predicably worked by the tise of the secret preparation, and if this be detentioned the commercial scale, a great step in metallurgical chemistry will have been made. The prospectus will be found in another column.

The Oritá Gold Mines, with a capital of 20,000L, in shares of 1L each, has been formed on the excellent principle inaugurated by the promoters of the Organos Company. No purchase or promotion money is paid, but the shareholders are given the option of purchasing the freehold of the estate, 9 square miles in extent, any time during the lease (21 years at a royalty of one-seventh of the gross proceeds) for 30,000L. The prospectus, which will be found in another column, states that it is proposed to commence the eperations of the company at a point on the estate where the gravel has been thoroughly prospected by a neighbouring mining company, and proved to be exceedingly rich. This company, working with a very small head of water, and only on the top seam of gravel, is now making a profit at the rate of about 6000L per annum, and has extracted over 30,000L of gold from the ridge. The present owners of the Oritá Estates have already laid out and commenced the construction of a ditch to extry 3500 in. of water to the spet mentioned. This amount of water will be sufficient to wash at least seven times as much gravel as that now being washed by the neighbouring mine, and, taking as a basis the actual work being washed by the neighbouring mine, and, taking as a basis the actual work being done at that mine, should show:—Produce of gold dust, 4954.; cost of management—working and royalty, 1212l; profit per month, 3772l. This is considered a moderate estimate, as operations will be commenced on the lowest and richest stratum of gravel, and the amount of work which can be accomplished with a large head of water should be far greater proportionately than with a small one. The estimate furnished by the Supplied profit in the friest second of one profit in the property. Magnificent timber can be accomplish

6ft. wide, worth 2 tons of copper and 3 tons of mundic per fathom. The sinking of Watson's shaft is progressing satisfactorily. Devon Great United, \(\frac{1}{2}\) to \(\frac{1}{2}\); the rock-drill has been started on the end of the middle lode in the 60 fathom level, west of Watson's shaft, where the madric lode in the obtained it is expected some good ground will shortly be laid open. The machinery throughout the mine is working well. South Devon United, \$\frac{1}{4}\$ to 1; the lode in the 110 east is 5 feet wide, producing good stones of copper and mundic worth 8t. per fathom, and from the general appearance further improvement is expected. The ground is described as similar to that in which the large deposit of copper found. The lode in rise back of the 80 fathom level is fro

was found. The lode in rise back of the 80 fathom level is from 3 to 4 feet wide, producing good stones of copper, Pickstone shaft is down 9 fathoms below the 14 fathom level; ground favourable for sinking. The portable engine was started at Martin's shaft on Wednesday and is working well.

East Wheal Rose are still in strong demand, at 11-16ths to 13-16ths; and from the reports in another column of to-day's Journal everything is considered to be progressing most satisfactorily.

Kit Hill, \(\frac{1}{2}\) to \(\frac{2}{3}\); the various levels and winzes are reported to be looking well, and yielding small quantities of t'in ore. The main tunnel level has been driven 16 ft. during the last week, and the ground becoming dry, greater progress, it is hoped, will be made. Drakewalls United, \(\frac{1}{2}\) to \(\frac{2}{3}\); since July 27, 9 tons of black tin have been prepared for sale, and will be sent to market next week. The agent also reports that he has 15 tons of arsenic soot ready for sale. The driving of the deep adit, west of engine-shaft, progresses satisfied. been prepared for sale, and will be sent to market next week. The agent also reports that he has 15 tons of arsenic soot ready for sale. The driving of the deep adit, west of engine-shaft, progresses satisfactorily, and the stopes and pitches are yielding fair quantities of tin Mounts Bay, 7-16ths to 9-16ths buyers. From the reports to hand it appears that there are 7 tons of tin awaiting the completion of the stamps, which are in a forward state.

South Frances, 11½ to 12; a correspondent writes that the favourable reports which were issued by the management of this mine sometime back do not appear to have any justification. The mine is an unsatisfactory state, and considerable repairs are needed to

sometime back do not appear to have any justification. The mine is an unsatisfactory state, and considerable repairs are needed to

put it into proper working order. It is rumoured that a call will be made at the next meeting.

Tresavean, 9-16ths to 11-16ths; it is reported that the stopes at Wheal Boys shaft are improving in value, and that some good indi-cations have been met with in other directions, pointing to further

important discoveries. Old Shepherds, \$ to \$; it is reported there has been some good enquiries for these shares during the week, that the engine is draining the mine satisfactorily, and that the dressing machinery is at

ing the mine satisfactorily, and that the dressing machinery is at work preparing ore for market.

Rlchmond, 9 to 9½; the usual telegram from the mine states that the week's run was \$22,000, from 486 tons of ore, with one furnace. During the week the refinery produced doré bars to the value of \$25,000. The superintendent's report to Aug. 7 will be found in another column. The Eureka Sentinel of Aug. 16 says:—It seems pretty definitely settled that the Richmond furnaces will close down on the first of next month unless an unexpected discovery of ore should be made within the next week. The outside wood and coal teams have been ordered off, and Harrub and Co.'s teams will be taken off on Aug. 23. This will probably throw some 125 men out of employment until next spring, when it is calculated that the furnaces will be started up again. In the meanwhile it is understood that those men who are tributing will be regularly employed by the company to prospect the mine in a systematic manner. It is, of course, much to be regretted that the Richmound furnaces are to be closed down, but we believe that the stoppage is not a longer time than that mentioned.

Ruby and Dunderberg, 27. to 21. 10s.; new, 13-16ths to 15-16ths

Ruby and Dunderberg, 21. to 21. 10s.; new, 13-16ths to 15-16ths

prem. The weekly report advises that the main shaft has been sunk 12 ft. during the week; total, 122 ft. below the 700. The No. 3 ore body above the 700 is again improving in quantity, and is, moreover, branching off at four different points. Though the No. 3 ore body has not yet been encountered again below the 700, indications of ore are nevertheless favourable. At the Home Ticket there is already an improvement in the ore body. It is now 4 ft. wide, of fair grade. The manager writes:—There is quite an improvement in the ore body we are now working on near the surface. It has increase in size considerably in the last few days.

Eureka Nevada Silver, \$ to \$\frac{1}{2}\$; fair progress has been made on the drift from the winze in the 150 ft. level in Bald Eagle in likely ground, and it is reported that if ore is not found within another 25 ft. a new drift will be started from another point, though in the same direction; the Williamsburg still remains stopped.

Asia Minor, par to \$\frac{1}{2}\$ prem.; it is stated that the portion of the

same direction; the Williamsburg still remains stopped.

Asia Minor, par to \$\frac{1}{2}\$ prem.; it is stated that the portion of the first shipment of silver-lead ore to England has realised on an average 184. 15s. 4d. per ton. The remaining portion, consisting of 87½ tons, will be offered for sale in a few days.

Organos Gold, 3¾ to ½; the report received from this mine is of a favourable character. The lodes are said to continue as rich if not is the first highest heap reported, while the machinery is not

richer than has hitherto been reported, while the machinery is so far completed that a return of gold is promised by the next mail. It is believed that this cannot fail to be satisfactory, as while the whole of the quartz extracted is estimated to contain an average of 4 ozs of gold per ton, some of it is much richer.

In lead mine shares there has been very little doing, and sellers and mine shares there has been very title doing, and seneral decidedly preponderate; the nominal quotations, however, remain about the same. Leadhills, 3½ to 3½, and reported to be in demand, owing, it is considered, to the appearance of the mine. Fine stones of lead ore continue to be raised, and the prospects of the mine throughout are regarded as good. The 70 fm. forebreast is improving, while Wilson's shaft and winze both maintain their value.

Roman Gravels, 8½ to 9½; the accounts from the mine continue to

Roman Gravels, 8\frac{1}{2}\to 9\frac{1}{2}\times the accounts from the mine continue to be satisfactory. The 80 end south is still improving and the 65 south is still going forward on the Big Spar lode. The new boiler is being put into the house, and no time will be lest in getting the new compressor and rock drills to work.

Anderton Tin, 1\frac{3}{2}\times to 1\frac{5}{2}\times a correspondent writes that it is anticipated from the favourable conditions and character of the lode that

enhancement in value will be given to this property at an early date.

The Frontino and Bolivia statement of profit and loss account for The Frontino and Bolivia statement of profit and loss account for June shows 2214 tons from general mines produced 2614% ozs. (average 11-16th os per ton); gold bought, 313 ozs. = 2927% ozs. The estimated value of the gold, including Exchange, was 73267. 4s. The cost at the mines at Medellin and in London, 51837. 7s.; to which add monthly allowance for freight, commission on gold sales and sundry fluctuating outlays not immediately ascertainable, 2507.; and gold bought of tributers, 6027. 10s. =80357. 17s.; leaving profit 12907. 7s. In addition to the cost of 51837. 7s. the sum of 9257. 15s. has been spent out of the new capital recently provided, and has been debited to capital account. The anticipations of Mr. F. White in his last month's report as to the increased quantity of gold have been more than realised, the increase being 633 ozs. The quantity of mineral stamped is the largest on record, and the produce satisfactory, having regard to the fact that the Silencic and Cordoba Mines were both below the average. For the next month Mr. F. White anticipates a rise in the total weight and a decrease in the cost.

month Mr. F. White anticipates a rise in the cost.

The Anticquia (Frontine) statement of profit and loss for June shows estimated
The Anticquia (Frontine) statement of profit and in London 1794, 3s., loss,
value of gold 904, cost at the mines at Medellin and in London 1794, 3s., loss,
sold and the cost of 1794, 3s., the sum of 1564, 15s. has been spent

Electric Light Companies' shares a fair amount of business has been done. Brush Parents, Brush of Scotland, and Hammonds continue their downward movement, but most others are either sta-tionary or a little higher. Anglo-American Brush (4l. paid) are now quoted 10½ to 11½, and Swan United have risen 1½ to 2.

The estimated traffic receipts of the New York, Pennsylvania, and Ohio Rail-road Company for the second week in August amount to \$113,433, against \$124,280 for the same period last year, showing an estimated decrease of \$10,847

At Redruth Ticketing, on Thursday, 843 tons of ore of 6\frac{1}{8} average produce, and containing 51 tons 7 cwts. of fine copper, were sold for 3278l. 3s. 6d., being 3l. 18s. 0d. per ton of ore, 12s. 0\frac{1}{8}d. per unit, or 63l. 18s. per ton of fine copper in the ore, and an average standard of 109l. 0s. Subjoined are the particulars of the two last sales:—

Date:

Tons. Standard. Produce. Per ton. Regular Core copper.

Mounts Bay Consols—The ten tin lodes recently discovered at Sydney Cove (north) have now been sufficiently tested for an estimate to be formed of their value. Eighty heads of stamps are being erected, and these, it is considered, will produce sales sufficient to pay net profits of over 5000L per annum. Those lodes will keep the stamps running night and day, and an important fact is they are mostly drained by an adit lead no purpose therefore will be are mostly drained by an adit level, no pumping, therefore, will be required. It is worthy of remark these rich tin lodes have been discovered since the starting of the mine, and are in addition to the rich to pay large profits on the whole of the capital. One of these lodes runs through the sett upwards of a mile in length. There has been a sampling at Trebarvah of about 40 tons of copper, and at Pembro, which is considered to be one of the richest copper mines in the district; the water has been pumped to the 30, and large deposits will shortly be available for market.

TANKERVILLE GREAT CONSOLS.—In their report this week the managers' state:—" We have discovered the Potter's Pit main lode managers state:—" we have discovered the Potter's Pit main lode making away to the west of the cross or north and south lode, quite a new feature in the mine; and the bright soft solid galena broken in the bottom to-day was cheering to look at. This east and west, or main lode, is now proved for 2 or 3 fathoms west of the cross lode, and is worth in places 2 tons per fathom in soft ground. The west end continues to show signs of a good branch of ore, and we trust that better days are in store for us."

DEVON FRIENDSHIP.—It will be seen by the agent's report in the usual place that this fine mine continues to look exceedingly well, several important improvements having taken place in the past week

EAST WHEAL ROSE.—Some of the directors have just returned from visiting the mine, and state they are more than satisfied with the progress of the work, and the quality and quantity of ore being got from Innes' and Middleton's lodes. Both of these lodes are now cut, and are being worked on in the 10. New stopes are being opened, and the dressing-floors will be kept in full work, followed by regular sales of ore. Captain Doidge, the manager, estimates there are 309,000 fms. of ground still unworked on the various lodes from surface to the 140, the deepest part of the mine. face to the 140, the deepest part of the mine.

NORTH PENSTRUTHAL.—An improvement has taken place at the 120 west at the mine since last week, some good stones of tin, intermixed with yellow copper ore, having been met with, and reported yesterday as very much improved in the last 2 or 3 ft. driving. This may be an indication of the commencement of a course of ore.

may be an indication of the commencement of a course of ore.

SOUTH PENSTRUTHAL..—This company is now entering into a contract for sinking their deep shaft 30 fms. below its present bottom by boring machinery, the contractor to sink 4 fms. per month. Hitherto, boring machinery, when employed, has been chiefly directed to driving ends, but in most mines depth, or getting down the shaft, is the all-important object. It is so in South Penstruthal, where the shaft going down in mundic is understood to cap a large deposit of copper.

Our Supplement The decirates of the relationship of the shaft going the shaft going down in mundic is understood to cap a large deposit of copper.

OLD SHEPHERDS.—The drainage of the mine is proceeding satisfactorily, the water being down 45 fms., so that the ore at the various levels will now be broken and dressed for market. The produce of the ore from the halvans assay 74% per cent. of lead and 17 ozs. 18 dwts. 9 grs. of silver to the ton of ore.

mine will be open, and the quantities of ore raised will only be limited to the force of men at work. The 24 heads of stamps are working well:

CARN CAMBORNE.—The discovery reported in this mine last week has considerably improved, the lode now being 3 ft. wide, and of a character favourable for producing copper ore in large quantities. The agents calculate that this lode extends for 40 fms. west, and a still agents calculate that this fold extends for 10 lbs. west, and a same greater distance to the western boundary of the sett, making in all a length of about 100 fathoms of unexplored ground, all of which is under the levels that proved very productive in the former working of this mine. The importance of this will be apparent to those quainted with mining in this rich locality.

BRATSBERG.—The net weight of the ore per the Via is 176‡ tons, and it has realised 13L 17s. per ton, exactly the same price as the Mary Owen cargo (208‡ tonsnet), the value of which was 2887L 1s. 3d. A further cargo is expected to arrive in a few days. It must be very gratifying to the shareholders to find such returns coming forward already, and before any of the new machinery is at work

Mr. Justice North has appointed Mr. H. Newman Smith official liquidator of the Pure Beverage Company.

#### CAPPER PASS AND SON, BRISTOL.

ARE BUYERS OF LEAD ASHES SULPHATE OF LEAD, LEAD SLAGS. ANTIMONIAL LEAD, COPPER MATTE, TIN ASHES, &C and DROSS or ORES containing COPPER, LEAD AND ANTIMONY.

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33 Tamar.
34 Tamar.
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36 Tailsetvills
37 Tamar.
38 Tamar.
39 Tamar.
30 Tamar.
30 Tailsetvills
30 Tamar.
30 Tamar.
30 Tamar.
31 Tamar.
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36 Tailsetvills
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are's free of commission:—
50 South Frances.
100 South Penstruthish
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5 Wheat Agar.
15 Wheat Agar.
16 Wheat Grenville.
25 Wheat Jane. Camborne Vean, Carn Brea, Cook's Kitchen, Cootacovil, Joaces, 30 Langford. 100 Morfa Du. 200 Mysore Reef. 25 New Kitty. 50 North Busy. 100 Norway Copper. 549 Ohl Owldcombe. Coates.
Devon Gt. Uni., 7s 6d
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D'Eresby Mountain.
Dolcoath. 30 Drakewalls.
30 Drakewalls.
31 Drakewalls.
32 East Blue Hills.
33 East Blue Hills.
34 East Blue Hills.
35 East Blue Hills.
36 East Chiverton.
36 East Roman Gravels.
36 Eberhardt.
37 South Cordour.
38 Eberhardt.
39 Eberhardt.
30 South Cordour.
30 Gawton.
30 Gawton.
31 Eberhardt.
30 South Crobor.
30 Gawton.
31 Eberhardt.
32 South Cordour.
35 Wheal Jane.
36 South Crobor.
36 Wheal Uny.
36 Wheal Uny.
37 Wheal Crebor.
38 Wheal Crebor.
39 Wheal Crebor.
30 Wheal Sisters.
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100 Devala Moyar.

100 Devala Moyar.

100 Exchequer.

100 East Bine Hills.

100 East Caradon.

100 Eards Nevada.

100 Eureka Nevada.

100 Gad Word.

100 Gold Coast.

100 New West Caradon.

100 Gold Coast.

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200 West Crobor.
200 West Caradon.
200 West Caradon.
200 Farys Mountain.
40 Prince of Wales.
250 West Devon.
250 West Devon.
250 West Devon.
250 West Crobor.
250 West Crobor. OLD SHEPHERDS.—The dramage of the mine is proceeding satisfactorily, the water being down 45 fms., so that the ore at the various levels will now be broken and dressed for market. The produce of the ore from the halvans assay 74\( \frac{3}{4}\) per cent. of lead and 17 ozs. 18 dwts. 9 grs. of silver to the ton of ore.

TRESAVEAN MINE.—The stopes at Wheal Boys shaft are increasing in number and value, and during the past week several branches of ore have been met with in another part, which indicates that a good lode is near at hand. All the ore now being raised is above the adit level, and in almost virgin ground. So soon as the water is lowered another 40 fms, the main and most important part of the

# Notices to Correspondents

\*\* Much inconvenience having arisen in consequence of several of the Numbeduring the past year being out of print, we recommend that the Journal should be filed on receipt; it then forms an accumulating useful work of references.

SOUTH CARADON, AND THE COST-BOOK SYSTEM.—In the Journal of Aug. 19, in an article headed South Caradon, and the Cost-book System, the writer has made an important error—on May 10 it is stated a profit was made of 474. 16s. 5d.: this should have been a loss of that amount.—Wat. H. Rulle: South Caradon Mine, Liskcard, Aug. 29.

Received.—"F. G. S."—"C. J."—"G. H. P."—"C. W."—"B. S."—"R. W. H. "S.H."—(Todmorden): Wethink you will find it on Aug. 19.—"J.E." (Abing don): We never give an opinion; apply to some respectable broker who deals in mine shares.

# THE MINING JOURNAL,

Railway and Commercial Gazette.

LONDON, SEPTEMBER 2, 1882.

THE MOTIVE AND LIGHTING POWER OF THE FUTURE.

The inaugural address of Dr. Siemens, as President of the British Association, delivered at Southampton last week, was a highly interesting, valuable, and suggestive one, and most appropriate to the present time, when much that is new in connection with the economical production of motor power and lighting is being brought under public notice. Last year no less than 181 patents were taken out in this country in connection with electricity, showing that it is the great question of the day now under the consideration of our most eminent scientists, mechanical engineers, and practical chemists, and few have done more in testing its practicability for various and few have done more in testing its practicability for various purposes than the President of the British Association. Following the example of his distinguished predecessors in the chair, Dr. SIEMENS devoted a large portion of his elaborate and able address to the particular branch of science, of which he is one of the ablest living exponents—electricity, its power, and what may be expected from it in the future. At the present time we know that from our best steam-engines we only receive a comparatively small portion of the power contained in the coal, whilst in our air-compressors we only obtain some 40 or 50 per cent of the useful effect. Electricity, however, gives far different results, even allowing for all deficiences that would arise from its transmission from a considerable distance. According to Dr. Siemens it has now entered the lists in competition with compressed air, the hydraulic accumulator, and the quickrunning rope as used at Schaffausen to utilise the power derived from the Rhine fall. The transformation of electricity into mechanical energy can be accomplished, it is stated, with no further loss than is due to such incidental causes as the friction and heating of wires, and these in a properly designed dynamo-electric machine do not exceed 10 per cent., whilst Dr. Siemens states that from some experiments of his own a still nearer approach to ultimate perfection is attainable. With respect to illuminating our streets we may now assume that electricity has passed from the experimental to the practical stage, although further improvements with respect to its adaptation may be looked for, and most people will agree with Dr. Siemens that the monopoly so long enjoyed by gas companies has had the inevitable effect of checking progress for its improvement and more general utilisation. The companies have certainly not done much in encouraging the application of gas for heating purposes, more especially in reducing the pressure in the mains during the day to the lowest possible point consistent with the prevention of atmospheric indraught. The introduction of the electric light, however, has convinced gas managers and directors that such a policy is no longer tenable, but must give way to one of technical progress, and as Dr. Siemens truly says, new processes for the cheapening of the production and increasing the purity and illuminating rower of gas According to Dr. SIEMENS it has now entered the lists in competias Dr. Siemens truly says, new processes for the cheapening of the production and increasing the purity and illuminating power of gas are now being brought forward, and improved burners, rivalling the electric light in brilliancy are now to be met with in most of our leading thorough fares. These, we may say, are really the outcome of the electric light itself, for no improvements were brought forward worth, scaling the product of the electric light itself, for no improvements were brought forward worth, scaling a light was introduced for the worth speaking of until the electric light was introduced for the purpose of superseding gas.

But were the latter to continue to be the power in use Dr. SIEMENS

reiterates a rather new idea as to how it could be most economically supplied to towns for street and household purposes, for he holds that the time will come when gas will be more extensively resorted that the time will come when gas will be more extensively resorted to by all classes as the cleanest, cheapest, and most convenient of heating agents, and when the raw coal will only be seen at the bottom of the mines where it is produced. However startling this may appear to be yet it is feasible, as those who have studied the subject will readily admit. To effect this it is only necessary, in all cases where the town to be supplied is within (say) 30 or 40 miles of the colliery that the gasworks should be planted at the mouth, or what is better, at the bottom of the pit, whereby all haulage of fuel would be avoided, and the gas in its ascent from the bottom of the colliery would receive an onward pressure in all probability sufficient to impel it to its destination. The transporting of combustible gas through pipes for such a distance has been proved to be a by no means difficult matter, as has been illustrated at Pittsburg, where natural gas from the oil is used in large quantities. In the course of his address Dr. Siemens laid some stress on a subject which has been frequently treated of in the columns of the Journal—the valuable hydro-carbons, or what are usually termed the by-products of the gasworks. bons, or what are usually termed the by-products of the gasworks. And here we may say that the gas-tar of our gasworks, producing the finest and most beautiful dyes, is principally exported to Germany. There the aniline and other dyes are extracted from it and exported to this country, the manufactures in which pay no less than 3,000,000l. annually for the dyes required by them in the production of textile and other fabrics.

and other fabrics.

This is certainly no credit to our own chemical manufacturers, for there is no reason why the dyes should not be extracted at home, and, of course, at a much less cost than possibly be the case in Germany. Dr. Siemers tells us that the annual value of the gasworks by-products in this country amounts to a very large sum. The colouring matter he estimates at 3,350,000l.; sulphate of ammonia, 1,947,000l.; pitch, 365,000l.; creosote, 208,000l.; which, with carbolic acid, coke, &c., makes a total value of 8,370,000l. Taking the coal required at 9,000,000 tons, at 12s. per ton, equal to 5,400,000l., it follows that the by-products exceed in value the coal used by nearly 3,000,000l. In using raw coal for heating purposes it is plain that these valuable products are not only absolutely lost to us, but in their stead we are favoured with those semi-gaseous products in the and other fabrics their stead we are favoured with those semi-gaseous products in the atmosphere so well known to the residents of London and other large towns in the shape of smoke. In connection with these Professor ROBERTS has calculated that the soot in the pall hanging over London on a winter's day amounts to 50 tons, and that the carbonic oxide, a poisonous compound resulting from the imperfect combustion of coal, may be taken as at least five times that amount. Mr. AITKEN, in a paper communicated to the Royal Society of Edinburgh, has also shown that the fine dust resulting from the imperfect combustion of coal is mainly instrumental in the formation of fog, each particle of solid matter attracting to itself aqueous vapour, the globules of fog being particularly disagreeable, owing to the presence of tar vapour—another result of imperfect combustion of raw fuel, which might be turned to much better account at the dyeworks. On the contrary, the electric light gives off no smoke, and the heat, though great at the luminous point, is confined to such a minute space that it is not practically inconvenient. Gas, it is stated, is the cheapest form of fuel that can be obtained, and its greater efficiency is found in the circumstance that I b. of gas yields in combustion exactly double the heat produced in the combustion of

that, in consequence of the great advantage of gas over raw coal, that before many years have elapsed we shall have in our factories and on board our ships engines with a fuel consumption not exceeding 1 lb. of coal per effective horse-power per hour, in which the gas-producer takes the place of the somewhat complex and dangerous steam believer.

The advent of such an engine and of the dynamo-machine must mark a new era of material progress at least equal to that produced by the introduction of steam-power in the early part of the century. The effect of such an engine on the mercantile navy alone would require some calculation, but it would certainly be immense. But returning to electricity, which, as we have before stated, formed the leading portion of Dr. SIEMENS' address, we may say that its capabilities for fusing, although not specially noticed, have been demonstrated, and the advantages of it practically shown. It has been found that 1 lb. of coal will melt nearly 1 lb. of mild steel, whilst by means of the dynamo-electric current 1 ton of steel is produced by the burning of 12 cwts. of coal—in fact, the temperature obtainable issomething enormous, and theoretically unlimited, our scientists The advent of such an engine and of the dynamo-machine must by the burning of 12 cwts. of coal—in fact, the temperature obtainable is something enormous, and theoretically unlimited, our scientists having estimated it at 3500° Centigrade. When our iron and steel can be produced with such a small amount of fuel, our ships sent to sea with engines capable of doing the work required so economically, and with a brilliant light at a moderate cost, well may it be said that we are hovering upon the brink of the greatest practical discovery of the age with respect to the motive, fusing and lighting, power of the future. The question to which Dr. Siemens so ably called attention is, indeed, one the solution of which is now receiving the most thoughtful consideration of scientists at home and abroad, and the result we believe will be to maintain and extend the position of England as the greatest commercial and industrial power in the world. the world.

#### OUR RAILS IN BRITISH AMERICA.

There appears likely to be for some time to come a good demand for our rails in Canada. The chief customer will be the Canadian Railway Company, but at the same time there is great activity observable in regard to Canadian railway construction generally. The Canadian Pacific authorities have now accumulated sufficient matéric in the way of ties and iron to construct a line to the Saskatchewan and track laying is progressing at a rapid rate, notwithstanding that a rough section of country is being traversed. Of late track-laying has advanced at the rate of three miles per day, and rails are now laid a distance of 347 miles from Winnipeg. It is not expected that the Thunder Bay section will be open for traffic this year, but the contractors of Section B have pushed forward the heavy work down their track to 674 miles and trains can be ran with safety over their

contractors of Section B have pushed forward the heavy work down their track to 67½ miles, and trains can be run with safety over their section. Some trestle-work has yet to be filled up, but otherwise Section B is finished and ready for traffic. Upon Section A sink-holes have appeared, and the line is at present impassable. North of Lake Superior construction has also began upon the Canadian Pacific, from Thunder Bay Landing to Nepigon. Five or six engineering parties are exploring along the north shore of Lake Superior, and contracts for the construction of the whole section from Nepigon to Nipissing will be let early next year.

As Canada is participating, to some extent, in the prosperity which appears to be once again spreading over North America, and as amalgamation arrangements have been carried through by the Great Western of Canada, the credit of the Grand Trunk of Canada has sensibly improved, and important improvements and extensions will accordingly be carried out upon this system also. The Midland of Canada, again, has become an important undertaking, and several extensive extensions are in course of execution in connection with it. There appears a danger that the Canadian Pacific will come into competition with the Grand Trunk of Canada at some points, but with this exception there really appears to be no drawback in the Canadian granding realigns religent this generations. points, but with this exception there really appears to be no draw-back in the Canadian railway future. It is sometimes thought that Canada is losing its population in consequence of the tendency of Canadians to drift away into the United States. But this does not canadans to drift away into the United States. But this does not appear to be the ease to any extent, and, upon the whole, the population of Canada is steadily increasing, so that the local traffic of the principal Canadian lines has a tendency to expand. This is a matter of very great importance, as hitherto Canadian railways have suffered from a want of both through and local business.

There is one consideration which always suggests itself in constant in the Canadian will contract and the in the constant of the contract of the contr

There is one consideration winch always siggoest itself in connection with Canadian rail contracts, and that is that our iron-masters will do well to see that pay ment is substantially assured to them for all work and labour done, and all materials supplied by them. We say this because Canadian railway credit has never been very strong, and Canada shares, whether she likes it or not, in the business viccisitudes of the United States, without possessing the population and largely developed resources of her great parts as well. population and largely developed resources of her great—not to say marvellous—neighbour.

COMPRESSED FUEL VERSUS COAL.

When the coal trade is said to be unprofitable, as we hear on all sides at the present time, and when the small material known as slack or smudge only realises from 1s. to 2s. per ton, it is somewhat surprising to find that our mineowners have made no attempts to get out of the old grooves in which they and their predecessors have ran. Coal is sent to market just as it is found, whilst a good deal of the fine slack made in cutting and bright good while the property of the p the fine slack made in cutting and bringing down is left in the pits. Now, there does not appear to be any necessity for using coal in its ordinary form, or why it should occupy the space it does, seeing that it has been proved that compressed fuel can be made to yield all the advantages we derive from coal, without the many disadvantages. On the Continent, and along the shores of the Mediterranean fuel bricks are most extensively used and are found easy of transport bricks are most extensively used, and are found easy of transport inland. In France there are several large works in connection with mines where the slack is converted into bricks, and these are now entirely used in the French navy, being preferred for several reasons to the coal in its lumpy state. If compressed fuel, therefore, is found advantageous for steam purposes there is certainly no reason why it should not be found suitable for ordinary household burning as well. Were it so adouted less reconvends he required for stering a given

should not be found suitable for ordinary household burning as well. Were it so adopted less room would be required for storing a given quantity, whilst there would not be the dirt and dust that are inseparable from coal as it is now delivered into our cellars. There would also be a great difference between the price of it and coal, with very little as regards the heating power for all ordinary purposes. In France the fine coal is well washed, so that all impurities are removed from it, which is more than can be said with respect to our ordinary fuel, in which we have clinkers and pyrites, by no means pleasant, as they shoot out their mineral particles from the fire, besides which there is a greater amount of ash than there ought to be, showing the earthy mixture sent out with the coal. During the last two or three years large quantities of compressed fuel have been shipped at Marseilles for Egypt and the Mediterranean, and last year about 20 of these vessels unloade 1 at Alexandria, and several at Port Said and Suez. The fuel has been found much better adapted to the Egyptian market than ordinary coal, espectively. several at Port Said and Suez. The fuel has been found much better adapted to the Egyptian market than ordinary coal, especially for the purpose of being transported into the interior, and the buyers, in consequence of the small pratique and waste given by the compressed fuel, prefer it to ordinary coal, whilst it also is found to be most suitable for long transport either by railway or by water. But the exportation of the brick fuel, as it has been termed, from Marseilles is not exclusively directed to Egypt, for it is sent to the Turkish ports and the Danube, a good deal going direct to Constantinople. In the shipment of compressed fuel, too, we believe there is no extra insurance premium to be paid, seeing that from the report of our own Royal Commission with respect to the spontaneous combustion and explosion of coal cargoes there has been no taneous combustion and explosion of coal cargoes there has been no case recorded of such combustion having taken place in cargoes of compressed fuel. This no doubt is due to the mode of manipulation and the art of compressing. The bricks are prepared from crushed or disintegrated coal, agglomerated by either pitchy or fari-naceous matter, and when compressed in the moulds are dried in ovens. Being then subjected to a considerable heat, so that not a pound of ordinary coal, the extra heating power being due partly only is the moisture or the volatile portion of the pitch or tar to the freedom of the gas from earthy impurities, but chiefly to the heat imparted to it in effecting its distillation. Dr. Siemens believes fire-damp existed in the cells of the coal is expelled.

The necessary machinery for producing bricks is by no means costly, and at coal mines there is always sufficient power for carrying on the work, whilst the ordinary brick-making machines, some of which are capable of producing from 12,000 to 15,000 blocks a day, could be made available. There are also mixing machines at present in use that are by no means expensive. The small coal could be purchased from 1s. 6d. to 2s. per ton at least, and if 2s. 6d. per ton is allowed for the cohesive material and the working into bricks, it is evident that the latter could be sold at such a price as would ensure an extensive demand. If produced as it could be the probability is that it would supersede coal, especially in large towns at a distance from any coal mining district. In London, in particular, it would soon make its way, being so easy of carriage, whilst the bricks might be made of a certain weight, so many to a hundred-weight. Compressed fuel, containing other material besides coal might also be considered outside the City dues. However that might be, we think that those colliery owners who turn their attention to the utilising of the small and waste coal by converting it into compressed fuel will find it greatly to their advantage to do so. The necessary machinery for producing bricks is by no means

THE COAL TRADE.—During the past 15 years the annual exports of British coal have very nearly doubled in quantity, and the following table giving the quantity and value of the exports year by year since 1866 shows the manner in which this still extending trade has

35 1				
	Exports of co	oal from the	United King	dom.
1867	***************************************	10,565,829	***************************************	£5,488,945
1868		10,967,062		5,437,922
1869	***************************************	10,744,945	***************************************	5,165,668
1870	***************************************	11,702,649	***************************************	5,638,371
1871	*************	12,747,989		6,246,133
1872	***************************************	13,198,494	**********	10,442,321
1873		12,617,566		13,188,511
1874		13,927,205	**************	11,984,621
1875		14,544,916	************	9,658,088
1876	*************	16,299,077		8,904,463
1877	***************************************	15,420,050	******************	7,844,486
1878	***************************************	15,494,633	*************	7,330,474
1879	**************	16,442,296	************	7,206,799
1880		18,719,971	***************************************	8,372,933
1881	***************************************	19,587,063	*************	8,785,950

It will be noticed that during the three years immediately succeeding the panic of 1866 the rate of export remained almost stationary. In 1870 an upward movement set in, which continued pretty steadily up to 1876, when the increase realised within seven years was not less than 50 per cent. Thereafter there was no improvement until 1880, when a further upward movement began, which is still in progress, and it is probable that the exports during the current year will be about twice as great as those of 1867. A glance at the column giving the declared value of the exports will show at how low a price we are now selling our coals. Low prices can however herdly be long maintained in view of so steady an can, however, hardly be long maintained in view of so steady an augmentation in the foreign demand, accompanied, as it is well known to be, by an equally steady demand for coal for home con-

TREVAUNANCE.—The news from this mine is, fortunately, mos encouraging. It is not unlikely that it will turn out to be a speedy prize. No one knows yet the exact extent of the recent discovery of tin, but by the cautious manager of West Kitty it is pronounced to be very considerable. People were long before believing in West Kitty, now the third richest tin mine in Cornwall. How long will they take to grasp the value of the adjoining mine, Trevaunance?

New Kitty.—The ordinary meeting of the shareholders in this company was held at the offices, Walbrook, on Aug. 29. Mr. John B. Reynolds presiding. The chief object immediately before the shareholders is the cutting of West Kitty rich lode in the New Kitty engine-shaft, and for the attainment of this they have already spent over 3000?. The object is a very laudable one, and if the proprie tors are successful no doubt they will reap a very rich harvest, and, judging from the way in which their business is conducted, it is fair to say that they deserve success. It is evident there is great unanimity. to say that they deserve success. It is evident there is great unanimity to say that they deserve success. It is evident there is great unanimity and satisfaction amongst the proprietary, and bearing in mind the regularity and promptitude with which calls are responded to, there exists great determination to prosecute the undertaking legitimately. The close proximity to West Kitty and Wheal Kitty must on no account be overlooked by those who are watching the progress of the concern, and the premium which the shares readily command and have commanded for a long time past, notwithstanding certain adverse criticisms, clearly indicates that the shareholders have the best possible reasons for believing that they are in possession of a prize. Should this mine and Trevaunance turn out to be anything prize. Should this mine and Trevaunance turn out to be anything equal to West Kitty the results of the St. Agnes district will be rather difficult to exaggerate. That these mines are likely to form a rich cluster there is no reason to doubt.

cluster there is no reason to doubt.

WHEAL COATES—The ordinary meeting of the shareholders in this mine was held at the company's offices, Walbrook, on Aug. 29. The Hon. Ashley G. J. Ponsonby in the chair. There was a very large attendance of shareholders. The interest in the proceedings of the company is evidently increasing, and an important discussion on points of management took place. The results of working this property are, however, somewhat disappointing, and, as is frequently the case, it turns out that at one time the base of operations was not judiciously chosen; but this was mere accident, and reflects on no one. The company can now only be congratulated on the fact that the shareholders have so heartily assented to the resumption of the sinking of a shaft which former proprietors ought never to have abandoned, as, had they continued to sink it, the chances are that the present Cost-book Company would never have been heard of; therefore, this promises to be another illustration of the old saying, that it is an ill wind that blows nobody any good. There appears, on the part of the officials, every disposition to give the shareholders the fullest information, and at the same time they are careful not to excite undue expectations, Shareholders are often slow to appreciate this policy, liking to have over-coloured statements, but that they will not get such statements as long as the manager of West Kitty is at the head of their affairs in Cornwall is an absolute certainty. On the other hand, the company may be certain that they will know from time to affairs in Cornwall is an absolute certainty. On the other hand, the company may be certain that they will know from time to time precisely how they stand, and what their prospects actually are; and this cannot fail to satisfy them if they are ordinary busi-

CESENA SULPHUR COMPANY.—The annual general meeting of shareholders was held at the offices, Finsbury-circus, on Aug. 25, Mr. C. Schiff presiding. In moving the adoption of the report, the Chairman expressed his regret that the result of the year's working had been very unsatisfactory in every respect, and they had not realised a single one of their hopes. They had received the shareholders' authority to attempt the sale of the property, and after a great deal of exertion on the part of Mr. Kossuth they thought they had settled the matter, when all of a sudden the whole affair fell through. The working itself had given had results as to countify through. The working itself had given bad results as to quantity, quality, cost of production, and increased royalties. The only good part, if it could be called a good part, was the reduction which Mr. Kossuth had effected in the debt of the company during the year from 1,190,000 lire to 750,000 lire—a reduction equal to 16,000%. On the other hand, at the end of the year they held a much smaller stock of sulphur than they had at the heginning of the year. They were of sulphur than they had at the beginning of the year. or support han they had at the beginning of the year. They were even now under a considerable obligation to the bankers in Italy, and Mr. Kossuth had been obliged to sell the stocks at whatever price he could obtain in order to reduce the debt. Mr. Kossuth, in whose hands the management of the undertaking was vested, had always acted with great energy. The directors had continued to serve without remuneration. Mr. J. Staniforth having seconded the motion, Mr. Kossuth observed that he could only remeat what he had said on neration. Mr. J. Staniforth having seconded the motion, Mr. Kossuth observed that he could only repeat what he had said on several previous occasions—that their loss had been exclusively owing to the depreciation in the selling price of sulphur. The different price of sulphur. ference in the selling price now as compared with the time when the

company was started amounted to 20,000l. a year, whereas their loss, as shown in the balance-sheet, only amounted to 10,000l. last year. They had done all they could to reduce expenses. The report was adopted without discussion, and the retiring directors and auditors vere afterwards re-elected.

# SOUND INVESTMENTS.

CANADIAN RAILWAYS.—THE GRAND TRUNK AND GREAT WESTERN.—At the confirmatory meetings held on the 10th August, resolutions for uniting these two undertakings were passed by immense majorities, thus making the success of the "fusion" even more conspicuous than would have been the case if perfect unanimity had prevailed. In the case of the Great Western only three nimity had prevailed. In the case of the Great Western only three shareholders representing 175 votes opposed, while 1384 persons, holding no less than 111,610 votes, supported it; and in the Grand Trunk, 3766 advocates of fusion, with 306,293 votes, were confronted by only three dissentients, who, however, did not record their votes at the poll. The opposition having finally dwindled to such infinitesimal proportions proves conclusively that there never could have been any really solid basis or excuse for resisting the measure. From the 12th August the Grand Trunk and Great Western Companies ceased to have a separate existence, and the amalgamation of two having taken effect on that day, the united undertakings will henceforth be known as the Grand Trunk Railway of Canada. To the shareholders in both railways it must be a matter of sincere congratulation at last to have accomplished this result, and espe-

congratulation at last to have accomplished this result, and especially so after the many futile attenute. congratulation at last to have accomplished this result, and especially so after the many futile attempts which have been made to bring it about during the past 20 years. There can be no doubt that the united company will be immensely benefited by the change which has been brought about, and it is satisfactory to know that immediately after the ratification of the agreement between the two companies, vigorous action has been taken in Canada to improve the working of their respective systems both in regard to the public convenience and the interests of the shareholders. It is needless to state that all competition will cease and numerous economies will

be gradually introduced.

To shareholders the outlook at the present time is decidedly cheering; the amalgamation has become an accomplished fact, the cheering; the amaignment has become an accompanied tact, the traffics are improving (the increase for the two weeks ending 26th August amounting to 16,993t.), and the prospects for the remainder of the half-year are very favourable. During the ensuing autumn and winter the receipts of all American and Canadian railways must be largely augmented in consequence of the abundant harvest and the general stimulus thereby imparted to all trades and industries. Convergently with this growth in the againgts, it is confident. tries. Concurrently with this growth in the earnings, it is confidently anticipated that the values of American railway securities will improve, and there is no doubt that Grand Trunk stocks must participate in any such advance. It should be remembered that for the corresponding period in 1880, when the harvest was not so good as now, and when the traffics also were less than this year, a dividend of 1 per cent. was earned on Grand Trunk Third Preference

Stock.

Being now freed from the harassing competition which has prevailed for so many years, and with all the conditions for profitable working distinctly favourable (as they are at the present moment), the united company should steadily advance in prosperity, and particularly so, in view of the tide of emigration which is flowing towards Canada, and the rapidity with which the Dominion is being opened out. I have no doubt myself as to the future, and those who hold on firmly to their investments will, I feel sure, be amply rewarded. Private advices which I have received this week from Canada state that the Grand Trunk prospects at the present time may be best described as "splendid." I look for a marked improvement in the values of all its securities during the next few months.

MEXICAN RAILWAY.—The most conspicuous feature of the market during the past month has unquestionably been the remarkable rise in the securities of this railway. Thus, since the issue of my last circular again recommending investments in them the in-

able rise in the securities of this railway. Thus, since the issue of my last circular again recommending investments in them the increase in values has been ar follows:...

The 8 per cent. 1st Pref. Stock was then quoted 140, it is now 148.
The 6 per cent. 2nd , , , 108, , 1134.
The Ordinary Stock The 8 per cent. 1st Pref. Stock was then quoted 140, it is now 148. The 6 per cent. 2nd "", "108, "113½. The Ordinary Stock "", "114, "134. Such a considerable improvement has not been brought about without adequate causes. The immediate incentive to the large investment buying which has prevailed has been the great increase in the traffic receipts, the total for the eight weeks to Aug. 26 amounting to over 42,000%, or an average of 5250%, per week. When it is remembered that it only requires 11,270% to pay an extra dividend at the rate of 1 per cent. per annum on the Ordinary Stock for the half-year, the significance of such enormous weekly additions to the earnings has a most appreciable effect on estimates of the six months' working. It is only natural that very sanguine hopes are inspired by such a satisfactory state of affairs, and although at the recent meeting I ventured to predict that the Ordinary Stock would rise to 130 before the next assembling of the proprietors I was scarcely prepared for such an early realisation of my anticipations.

pared for such an early realisation of my anticipations.

Considered from any point of view the prospects of this railway are in every way most favourable, and it seems only now that a certain section of the investing public are beginning to realise the true position of the undertaking. It will be remembered that for months past I have persistently advised investments in these securities, and have based my arguments on numerous facts which may receive the support of the securities.

principally and briefly be summarised as follows:—

(1) The large and continuous increases in the traffics (and which

are likely to continue).

(2) The very strong financial position—a reference to the last balance-sheet will show that there was a sum of 50,910*l*, to the credit of capital, and 69,357*l*, to the credit of subvention

account unexpended.

(3) The line has been made nearly throughout its entire length with steel rails, and this has been wholly paid for out of the revenue. When this charge ceases, as it will do very soon, which was the rails of the rails the working expenses will be relieved of a heavy item, and the profits consequently be increased.

The great improvement of the company's property by the

expenditure upon the lines of the subvention money, amounting to 60,000% per annum, received from the Mexican

Government. (5) The cordial relations existing with the Mexican Government, as evidenced by the recent arrangements concluded with them for the increased carriage of coal.

(7) The repeal of the export duty on silver after

onstantly growing trade

It will be observed that while in August the Ordinary Stock advanced 20 per cent., the relative improvement in the First and Second Preferences was much less, being 8 per cent., and 5½ per cent. in each instance. The more the Ordinary Stock improves the more secure these preferences become, and I? therefore, look for the First Preference gradually rising to 160k, and the Second Preference to 180k, are they would still yield 5 per cent. to investors at those to 1201., as they would still yield 5 per cent. to investors at those

PHILADELPHIA AND READING RAILROAD,—The business of this company continues to steadily improve, and I have no doubt that its securities will quickly participate in the advance in American securities, which is so confidently expected. The Deferred Income

Bonds of \$50 each, at the present price of \$12, or 76 per cent. dis-

Bonds of \$50 each, at the present price of \$12, or 76 per cent. discount, will, I am sure, become a most popular low-priced investment when the American market again becomes buoyant.

MIDLAND RAILWAY OF CANADA.—In view of the increased earnings of this railway, and its generally improved position, I continue to recommend investments in the 5 per Cent. First Mortgage Bonds at 97. They are fairly worth 1 or 2 premium.

VARNA RAILWAY.—A slight improvement is to be recorded in the 3 per Cent. Obligations. It is understood that a distinctly favourable point has just been reached in the negociations between the company, the lessee, and the Bulgarian Government, and it is the company, the lessee, and the Bulgarian Government, and it is confidently anticipated that a successful result will soon be arrived at. When this event takes place a marked improvement in the value

at. When this event takes place a marked improvement in the value of both shares and obligations must inevitably ensue.

EAST ARGENTINE RAILWAY.—Since advising the purchase of these shares last month they have risen 2l. It is expected that the directors will soon be in a position to pay the balance of interest to Dec. 3l last. After thus clearing off all arrears, the Argentine Government will no doubt find it an easy matter to pay the 7 per cent. Guarantee regularly. The shares are certainly cheap by comparison with other Argentine railway securities, and will, I think, rise to 23l. before long.

GREAT WESTERN AND GREAT EASTERN RAILWAYS.—A rise of 6l per cent, and 2l per cent, respectively has taken place in

rise of 6½ per cent. and 2½ per cent. respectively has taken place in these stocks during the past month. The traffic receipts continue to increase most satisfactorily, and with the steady investment demand there is every reason to look for further improvement in both secu-

CORNWALL MINERALS RAILWAY.—These stocks have slightly reacted from the advanced quotations of last month. It is satisfactory to know that the great want which has hitherto been felt a Newquay is now likely to be provided for by the establishment of the Newquay and District Water Company. There have been more visitors at this charming seaside resort this year than at any previ-ous time, and anything which tends to its development must also im-

ous time, and anything which tends to its development must also improve the Cornwall Minerals line.

TRAMWAYS.—Very little business has taken place in these securities for some weeks past. The recent announcement by the German Tramways Company of a 7½ per cent. dividend would, under ordinary circumstances, have caused the shares to rise to 12½, which I think is their fair value, yet they are still only about 10½. Iss. The Bordeaux, Calais, and Anglo-Argentine Tramways are doing very well indeed, and their shares are undoubtedly worth buying.

INDIAN GOLD MINES.—The prices of these securities have remained almost stationary during the past month, and, beyond the meeting of the Indian Phoenix Company, nothing special has occurred to influence dealings in them. The advices received from the various properties continue most favourable, though, of course, very little absolute work has been done on the different estates owing to the prevalence of the monsoon, which has been of unprecedented severity this year. The statements made at the Phoenix cedented severity this year. The statements made at the Phoenix meeting by Mr. Grove, the manager in India, were highly encouraging, not only to the shareholders in that particular company, but to all who are interested in Indian gold mines. He describes the Phoenix as a grand property, and also spoke in the very highest terms of the neighbouring estates of the Glenrock and Consolidated. It is also satisfactory to learn from him that the Gayernor of Madras. It is also satisfactory to learn from him that the Governor of Madras is "a thorough believer in the gold fields of India." When more active business is resumed after the holidays the re-

sults of crushing on the various properties will no doubt be known, and I look for a very active business in the shares at that time. The Phænix are now crushing night and day the surface stone referred to by Mr. Grove at the meeting, and the Consolidated Company will

work very soon.
PLATA MINING AND SMELTING COMPANY.—Since the LA PLATA MINING AND SMELTING COMPANY.—Since the issue of my special circular, on July 21, there has been an increased demand for these shares, and the quotation has advanced to 21-16th, 23-16ths. In view of the facts to which I called attention on that occasion, and the continued prosperous business of the company, I still strongly recommend investments in the shares. In my last circular I inadvertently referred to the quarterly dividend being due on Sept. 1. Although the three months' profits are for the period ending that date, the distribution cannot, of course, be made until Oct. 1. I have every reason to believe that the old rate of 12 per cent. will be maintained, and the usual official announcement of the payment may be expected in about a fortnight's time.

payment may be expected in about a fortnight's time. The following extract from the Denver Tribune will no doubt be read with much interest by shareholders in this company:—"The bullion exhibit for Leadville district at the close of the second quarbullion exhibit for Leadville district at the close of the second quarter shows a thoroughly prosperous condition of affairs in and about the mines. If the last half of the year is as good as the first, the gross return will be the largest ever produced in that remarkable section—in round numbers about fifteen and a-half millions. Leadville maintains the position which it assumed in 1879, of the first and greatest bullion-producing district in the world.

Development is constantly uncovering hidden treasure, and but a small fraction of the whole carbonate-bearing territory has been penetrated. They are beginning to discover the existence of inexhaustible fissures beneath the bedded limestone, and as the workings descend toward the grantic formation, assurances are given that the

descend toward the granite formation, assurances are given that the future wealth of the mines will be greater than their past."

I consider these shares are fairly worth from 2l. 10s. to 2l. 15s.

— From Mr. WM. ABBOTT's Circular for Sept., 16, Tokenhouse Yard, London, E.C.

# WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS. MINEOWNERS, STOCK AND SHARE DEALERS, &C. 1, ST MICHAELS ALLEY CORNHILL, LONDON

It is always well that boundaries of mines should be properly and plainly described. It is the custom on some estates to leave a small plainly described. It is the custom on some estates to leave a small strip of neutral ground or barrier between two mines, so that disputes may be avoided. That which took place between South Frances and West Basset, through obstinacy and a fondness for law, cost many thousands of pounds, having been carried on for years and even to the House of Lords; yet it was a matter, as we wrote at the time, and after visiting the spot, that two practical and disinterested parties might have settled in a few hours. On the boundary of the two mines there stood a cottage belonging to one John Vincent, and under this cottage, a width of 30 ft. from the north-east corner to the south corner, one of the richest lodes in the district strip of neutral ground or barrier between two mines, so that disputes may be avoided. That which took place between South Frances and West Basset, through obstinacy and a fondness for law, cost many thousands of pounds, having been carried on for years and the followed pounds, having been carried on for years and the time, and after visiting the spot, that two practical and disinterested parties might have settled in a few hours. On the boundary of the two mines there stood a cottage belonging to one John Vincent, and under this cottage, a width of 30 ft. from the north-east corner to the south corner, one of the richest lodes in the district took its course. It was estimated that in the disputed 30 ft. of boundary there was at least 20,000l, worth of ore, and nearly that, we should think, was spent in determining to whom it belonged, and all through a want of clearness in the leases of both mines. The South Frances Company claimed the boundary according to their lease as in a line with the north corner of the cottage. The West Basset people asserted that their boundary extended to the south corner; so each claimed the land under the cottage. The case went before the House of Lords in 1866. (6) The rapid development of the country, and the opening out of the same by the establishment of new lines, which act as we should think, was spent in determining to whom it belonged, feeders to this—the main railway system in Mexico; and West Basset people asserted that their boundary extended to the south corner; so each claimed the land under the cottage. The case went before the House of Lords in 1866.

Writing in the Journal more than 20 years ago we referred to the ery question mooted by our correspondent. We wrote—"It has alwriting in the Journal more than 20 years ago we referred to the very question mooted by our correspondent. We wrote—"It has always been a difficult matter to persuade some people that mines making the greatest returns, and paying the largest dividends, are not necessarily the best and safest to invest in. In the olden time the fair and proper way of working a mine was considered to be that of taking away half the quantity of ore discovered, leaving the other half as reserve, in case of any temporary falling off in the lodes; but in these go-ahead times shareholders—especially those who buy for the market—look for the largest returns that can be made, and hence it is we see so many mines pay dividends too soon. A dividend mine wherein shares are required for investment is safer to buy so as to pay only 10 per cent, with a prespect of investment of the largest per control of the largest per c pay only 10 per cent, with a prospect of increasing to 20 per cent than one which is paying 20 per cent. by being worked too hard, and with probabilities therefore of falling off in a year or two."

cropped up, that of dealing and jobbing in dividends. And only one t side of the evil was shown at the Killifreth meeting, when a majority of dealers carried a dividend of 300l. more than the profit shown, leaving a working capital of only 35l. in hand. It was said that large transactions had taken place in dividends, as much as 7s. 6d. per share having been given for them, and when it was found the mine had only made 5s. there was a clamour, and a majority, composed of the dealers, insisted upon dividing the dealers. the dealers, insisted upon dividing the old balance in hand, leaving the mine to be carried on with borrowed money or debts unpaid. Should this system continue a grave injury will be done to mines managed in Cornwall.

Prince of Wales has sampled 88 tons of copper ore—22 tons 10 per cent., 32 tons 6 per cent., and 34 tons burnt leavings. The whole we estimate to produce about 300/. The monthly sale of tin will be 1½ ton. In regard to the silver referred to last week, we have rebe 14 ton. In regard to the silver referred to last week, we have received plans and particulars. The discovery at Bennett's shaft in Wheal Fortune, of which we knew nothing except from rumour, is said to be a large vein with a branch of silver 3 or 4 in. wide, producing 200 ozs. to the ton. Whether this will turn out anything or not we cannot say; at any rate, it is only 28 fms. from our boundary, and the silver lode runs through two fields belonging to Prince of Wales; thus if found of any permanence in Wheal Fortune a shaft near the boundary in Prince of Wales would soon reach it and at little cost.

At North Blue Hills the men have managed to crawl about 20 fathoms into the adit, and have broken some very good tin from a part of the lode left standing by the old workers in the back. One stone made 1 cwt. of tin to the ton of stuff.

We have not time this week to notice the article in an evening paper (sent us by a correspondent), and which wrongly assumes that the decrease in the production of copper, lead, and silver is owing to its exhaustion; but we will refer to it next week. The writer says, "The fact simply remains that the mines are rapidly approaching exhaustion, and if the decline continues—and there is nothing to indicate a hope of revival another project of the respective p exhauston, and it the decline continues—and there is nothing to indicate a hope of revival—another period of 15 years will see us nearly at the end of our mineral resources, so far as lead, copper, and silver are concerned." Very alarming this, if it were true; but let us assure the writer that if we can once more get the prices for our lead and copper that we got 15 years ago the production will increase fast enough.

#### NORTH METAL MINE-STARTING THE ENGINE.

The mine is situated in the parish of Sithney, adjoining Great Whaal Vor. It has been taken up, with two adjoining setts named Wheal Vor and Great East Vor, North Metal being in the centre, by a few wealthy gentlemen in London, and a considerable amount of work has been done in all three mines, but North Metal was the first a row wealthy gentlemen in London, and a considerable amount of work has been done in all three mines, but North Metal was the first to have an engine, and it was started on Thursday last. These mines have been taken up with the view of working Great Wheal Vor lodes. The engine-shaft at North Metal is 30 fms. below the adit on the course of the lode, and little or no drivage has been made, but as soon as the water is drained it is proposed to drive a cross-cut south forthwith to intersect the Great Vor lode, which yielded such enormous riches in years gone by. The engine, which was started on Thursday, is a 32-in., in good condition, and was purchased from Messrs. Harvey and Co., of Hayle. Substantial pitwork has been fixed from adit to surface, and the mine is laid out with a view to permanent working. The depth of the mine is laid out with a view to permanent working. The depth of the mine is laid out with a view to permanent working. The depth of the mine is about 45 fms. from surface. There are 12 heads and axle of stamps on the mine, and they will be receted forthwith. It may be remembered that from Great Wheal Vor there was returned 2,000,000. worth of tin, and that the mine gave between 500,000. and 600,000. in dividends, their monthly returns being at one time 210 tons per month. The Great Wheal Vor lodes dip eastward towards North Metal and the other mines, and it is said that rich courses of tin were left unworked about 10 years ago. This is one of the most ancient districts for tin in Cornwall. Capt. JOSEPH PRISK, the manager of the mine, christened the engine, with a bottle of wine, the Morgan engine, Mr. Morgan being one of the principal proprietors. There were loud cheers at the performance of the ceremony, and Capt. Prisk expressed a hope that the starting of the engine would be a blessing to the district, and bring back the old times again.

After the ceremony the company and friends dined together at the Star Hotel, Helston, under the presidency of Captain Prisk. A most liberal and excellent sp

hanked.

After dinner the CHAIRMAN proposed "Success to North Metal," and expressed hope that the men would continue to work in the future as they had in the ast, and that mining would increase in the district. The toast was drunk with sud cheers.

past, and that mining would increase in the district. The toast was drunk with loud cheers.

The next toast from the chair was "The Lords of the Mine," who were gentlemen they could rely upon, and they had been very kind to the adventurers, having given every facility, and helped them in every way, and he hoped they should be able to return to them a large amount in the shape of dues. (Applause), Mr. B. Johns, in responding for some of the lords, assured the adventurers that in any way he could assist them he would do so. The dues were easier than usual, and the lords wished them every prosperity in their undertaking. There was great praise due to Capt. Cowling, who had had his eyes on the property for many years, and from the information which he had received he believed North Metal was the bestsett in the western part of Convail. When Captain Cowling made application for the sett he said he had got a noble party to join him, and he (Mr. Johns) was glad to see Mr. Spargo there that day, and he wished him every success.

Coveling made application for the sett he said he had got a noble party to join him, and he (Mr. Johns) was glad to see Mr. Spargo there that day, and he wished him every success.

Mr. JAMES, on behalf of ther lords, also responded. He congratuled the company on having such a valuable sett, and said he did not think the company could have dropped on a more remunerative spot than they had. Anything he could do as agent he would be happy to do, and he hoped the day would not be far distant when he would be receiving cheques for dues. (Applause.)

Mr. R. SYMONS, in responding for "Mining in the District," said he was born in it, and was intimately acquainted with all the proceedings of the district for ine last 50 or 60 years, and the rich discoveries that had been made in the mines there, and considering that a most productive lode entered directly into North Metal sett, and at no great distance, and thatas the dip was eastward they might fairly assume that the lode was not exhausted. Far from it, for it was well known that whene working was left off therefwas a large quantity of ore running in that direction. There was every probability that in going down and following the old men's working they should soon come upon a bunch of ore. It was manifest that the tin was to be found in the bottom adit, and it was simply a question of going down on the lode in order to raise tin. They might fairly hope that as they went down they would find abundance of it, and the same remark would apply to New Great Wheal Vor. He trusted that there was a new and successfulera before the Vor district, which had long been distinguished as a tin producing district.

The CHAIRMAN then gave "The Promoters of the Mine." They all knew that they could not do without gentlemen bringing money into the county, and the was aure they would not do enthout gentlemen bringing money into the county, and the way the money had been spent with these gentlemen was worthy of all praise. He was sorry that some of the gentlemen expected were not present, be

At the British Association Mr. J. Coleman, mechanical engineer of At the British Association Mr. J. Coleman, mechanical engineer of Glasgow, submitted a paper on a "Combined Gas Motor and Cold Air Machine." This was the first successful attempt to drive machinery by connecting it directly with the piston-rod of a gas-engine cylinder, so as to get the direct action upon one sole plate, thus avoiding the complication of transmitting the power of the gasengine by the medium of belt and shafting, or a system of cogwheels. The idea had been successfully turned to account in combining an Otto gas motor cylinder with a dry-air refrigerating machine lately brought into use on the premises of Messrs. Brooke, Leadenhall Market.

At a meeting of the board of Palmer's Shipbuilding and Iron ay only 10 per cent. with a prospect of increasing to 20 per cent. By being worked too hard, and with probabilities therefore of falling off in a year or two."

But, added to this, nowadays a worse evil, as it appears to us, has

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#### MINERAL STATISTICS OF THE UNITED KINGDOM FOR THE YEAR 1881-No. IV.

COAL.—The total number of collieries raising coal in the year 1881 was 3813; the total production of coal, 154,184,800 tons. In 1880 the number of collieries was 3877; the coal raised, 146,818,622 tons, showing an increase in 1881 of 7,365,678 tons, and a decrease of 64 in the number of collieries. The number of collieries and the coal produced in the coal fields of the United Kingdom were as follows in the year 1881, the returns for 1880 appear side by side:—

Coal fields. No. of 1880.

Coal fields.	374		Toos appoi				
	No. of		Tons,		No. of llierie		1880. Tons.
Northumberland and	MIICE IC		Toms;	00	1110110		Tons.
North Durham	179		14,061,507	.66	175		14,046,008
South Durham		***	21,530,913		205		20,581,271
Cumberland	27		1,769,213		27		1,680,731
Westmoreland	3		1,860		3		4,349
Cheshire	29		782,000				
Lancashire, E, and N.					29		681,350
	356		9,326,722		361		9,520,150
West	110	***	9,173,088	***	174	***	9,599,850
Yorkshire, E. and W.	101		40 000 444				
Riding	484		18,287,141	***		.1.	17,473,525
Yorkshire, No. Riding		***	7,036	**6			
Derbyshire	223		8,508,923		235		7,892,969
Nottinghamshire	39	***	4,758,060		42	***	4,440,680
Warwickshire	32	***	1,133,419		32	***	1,106,639
Leicestershire	45	***	1,145,265	***	26	***	1,064,550
South Staffordshire	140	)	8,481,000	1	4 = 4		0.001 804
Worcestershire	113	}	1,577,670		454	***	9,661,534
North Staffordshire	144	446	4,799,400	***	144		4,083,290
Shropshire	55	***	892,500	***	61		905,980
Gloucestershire	102		1,361,396		103		1,235,153
Somefsetshire	36		731,754	***	36		781,591
Devonshire		***	20	.44	2		-
Dorsetshire	_	***		.64	ĩ	***	_
Monmouthshire	124		5,412,840		103	***	5,029,750
NORTH WALES.		***	0,112,010		100	***	0,020,100
Flintshire	51	***	835,850		51	***	789,950
Denbighshire		***	1,834,747		54		1,555,258
Glamorgan	289		15,987,516		298		15,519,362
Brecknock	D	444	102,642		5		99,750
Pembroke	8		79,159		8		79,500
Carmarthen	47		652,025		88	***	625,750
. SCOTLAND.		***	002,020	***	00	***	0.00,100
Bastern district	360		14,148,880	***	361		12,019,448
Western "	275		6,674,175		290		6,255,443
TRELAND	01	***	127,585		Aire	***	133,719
			121,000		00	***	100,710

tish ports 301,512 tons.
Phicks of Coal.—In the London Market in the year 1891 the sverage prices per ton of the best household coal in the Hiver Thames, the produce of the Great Northern Coal Field, varied from 14s. 10d. to 16s. 7d. per ton, so that the mean price for the year may be taken at 16s. per ton. This is exclusive of merchants' charges, commission, and City dues. The coals here referred to are different varieties of Wallsend from the districts of Newcastle, Sunderland, and Hartle-bred.

bucl.

The following table gives the average price of coals per statute ton in each of the following coal-producing districts in the year 1881.—

\*\*BAOK.\*\*

			C	OA	L.							8F	#G1	£.	
Durham & North-	Aver	ige.	H	gh	est.	L	owe	st.	A	vera	ge.	Hi	the	t. Lev	rest.
umberland 78	. 10d		12s.	6d		58.	30	1	3s	. Od		58	. 00	l2s.	3d
Cumberland 8	0		11	8		5	1		4	3		5	0	2	6
Perbyshire 6	1	***	7	0		5	6		3	6		5	6	2	0
Landashire 8	10		+25	0		5	0		4	0		5	6	2	6
Cheshire10	0		* 20	0	+48		7			9		5	0	1	6
North Staff 7	4		10	0				.11						2	0
South ditto 8	- 5		12	0		43	6		15	10	444	4	0	3	6
Nottingham 5	8		6	0		5	3	***	3	10		-	ø	1	9
Warwickshire 7	0		9	0	***		6							2	13
Shropshire 9	9	***	13	4			0			-	***			1	6
Somersetshire 10	8	***	14	2			8			-			6	1	8
Gloucestershire .10	6	444	14	0			8						-	3	0
Yorkshire 8	0			8			2						0	1	6
Monmouthshire 6	10		-	0			-			-			-	2	9
Morth Wales 9	0		433	14		-								2	0
South Wales 6	7			4		-				8			0	1	8
Scotland 6	6	***	-	o						-			_		-
Ireland10	9		*25	0	***		0						0		8
		***		-		0		***	~	0	***		U		G

Distribution of Coal. — Of the output of the Durham and Northumberland collieries in 1881, amounting to 35,592,420 tons, the Edds seit to foreign countries including coke, amounted to 7,520,015 tons; coastwise, 6,333,393 tons; carried by North-Eastern Railway for local consumption, 6,231,364 tons; and for railway use, 640,922 tons; coal and coke carried south of Altopt to Carlisle, 2,690,008 tons; that consumed in the blast-furnaces and malleable ironworks, foundries, &c., 4,200,000 tons; colliery consumption, 1,600,000 tons; and local manufacture, domestic use, &c., 1,861,495 tons. Other railways carried smaller quantities for conveyance to remote districts—thus, the Great Northern carried 291,940 tons from Durham; the Midland Railway, 132,214 tons; the Furness Railway, 626,065 tons; and the Manchester, Sheffield, and Lincolnshire Railway, 153,997 tons. CUMBERLAND AND WESTMORELAND.—The produce of the Cumberland coal field finds its way chiefly to the Irish markets through the shipping ports of Whitehaven, Workington, and Maryport, and

the shipping ports of Whitehaven, Workington, and Maryport, and was distributed as follows in 1881, the production of Cumberland being 1,769,213 tons, that of Westmoreland 1860 tons.

DISTRIBUTION OF CUMBERLAND COAL.	
Coal shipped coastwiseTon	s 512,265
, to foreign parts	. 1,046
Coal carried by Maryport & Carlisle Railway	
London and North-Western Railway	377,038
" Furness Railway to Furness and other	
stations	57,630
Coal used at ironworks, in collieries, and for local	
consumption	712,878

The shipments from Whitehaven show a total of 214,642 tons; fro Workington, 37,235 tons; Maryport, 229,960 tons; and Carlisle (Sil-

loth), 30,428 tons.

CHESHIRE COAL FIELD.—Of the 782,000 tons of coal raised in this coal field, the London and North-Western Railway carried out of the district 205,412 tons, of which 199,114 tons were carried to the sta-tions on their own lines, and 6298 tons to other lines. The Midland Railway carried from Cheshire 1607 tons received from other lines. The shipments from Chester coastwise amounted to 41,282 tons, and

o foreign countries 6047 tons.

LANCASHIRE COAL FIELD.—The following shows generally the more important quantities of coal distributed by railway and canal, the total output of the collieries amounting in 1881 to 18,499,810 tons, against 19,080,000 tons in 1880.

RAILWAYS AND CANALS.	
Qı	santities-tons.
London and North-Western	6,734,010
Lancashire and Yorkshire	4,090,012
Midland	162,812
Bridgewater Navigation	783,000
Loads and Lineman Conel	1 007 709

The coal sent coastwise from Lancashire ports amounted in 1881 to 631,228 tons, and to foreign countries 753,732 tons, the latter of the value of 406,532/.

TORKSHIRE COAL FIELD.—This coal field produced 18,294,177 tons, including 7036 tons raised in the North Riding. The southern area of the coal field, extending into Derbyshire and Nottinghamshire, with the adjacent areas of Warwickshire and Leicestershire, producing 15,545,667 tons. The Midland Railway in 1881 conveyed a total of 12,101,456 tons from the coal fields above-named.

COAL FIELDS.

Yorkshire

COAL FIELDS.

Yorkshire

Tons

6,026,069

Nottinghamshire

1,677,943

Warwickshire

1,677,943

Warwickshire

1,680,689

Nottinghamshire

1,680,689

Leicestershire.

1,168,068

COAL FIELDS.	
YorkshireTons	2,904,571
Derbyshire	6,026,069
Nottinghamshire	1,677,943
Warwickshire	324,815
Leicestershire	1,168,058

Total ..... The other coal carrying lines conveying the following quantities

rom Yorkshire:—	
RAILWAYS AND CANALS.	
Manchester, Sheffleld, and LincolnshireTons	4,949,542
London and North-Western	289,536
Lancashire and Yorkshire	1,950,065
Great Northern (South Yorkshire and West Riding)	1,962,672
North-Eastern Railway*	1,757,345
The Leeds and Liverpool Canal	186,933
A next of this quantity includes the critical of govern Tanons	Line gollientes

\*A part of this quantity includes the output of some Lancashire collieries, also the coal sent to Hull, Gools, and Selby for shipment.

The total quantity of coal sent from Yorkshire ports in 1881 amounted to 1,304,955 tons, of the value of 606,5461. Of the above quantity Hull shipped 632,356 tons, Goole 301,384 tons, and Grimsby 302,950

SOUTH STAFFORDSTIRE AND WORCESTERSHIRE.—Of the coal raised in this coal field amounting to 10,158,670 tons, the quantity raised from that area of the coal field coming under the Mine Drainage Association, in the districts of Bilston, Tipton, Oldbury, Kingswinford, and Old Hill, amounts to 3,049,007 tons, the remaining 7,109,663 tons not coming under the Mines Drainage Act. The production in 1881 was distributed as follows, the returns for 1880 appear side by side :— Distributions 1881 to 1880 appear side by 
 wide
 — DISTRIBUTION.
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 appear
 side by side
 — DISTRIBUTION.
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Total produce of South Staffordshire snetWorcestershire 10,158,670... 9,861,534
The total quantities of coal carried by the Birmingham Canal Navigation in 1881 amounted to 4,416,337 tons compared with 4,386,248
tons in 1880. The Staffordshire and Worcestershire Canal carried
219,500 tons against 218,825 tons in the previous year, the Gloucester
and Berkeley Canal 18,362 tons against 18,708 tons in 1880, and the
Severn Commission 59,633 tons against 60,468 tons in the previous year.
NORTH STAFFORDSHIRE COAL FIELD.—A large amount of the coal
raised in this part of the county is consumed in the district. The
output in 1891 amounted to 4,799,400 tons, compared with 4,083,290
tons in 1880.

DISTRIBUTION.

tons in 1880. DISTRIBUTION.

Sent out of North Staffordshire by North Stafford, Railway
Local Distribution by North Staffordshire Railway
Local distribution by Trent and Mersey Navigation
Taken from North Stafford, by London and North-Western
Taken from North Stafford, by London and North-Western
Tons.

243,438
508,448
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 Colliery consumption, &c.
 180,000

 Coal used at potteries and brickworks
 825,000

 Domestic and other local consumption
 908,722

duced 1,361,396 tons, of which the Forest of Dean contributed 813,327 tons from 60 collieries, Somersetshire producing 731,754 tons. Of the above the Midland Railway carried from both the coal fields 290,701 tons, and a further quantity of 126,216 tons received from other lines. The Great Western also carried 328,885 tons, and the Gloucester and Berkeley Canal 12,897 tons, the quantities shipped contribute from Gloucester and 18 produces to 10 to coastwise from Gloucester amounting to 244,200 tons, and to foreign

Countries 17,765 tons.

South Wales Coal Field.—This coal field, ranging through the counties of Monmouth, Carmarthen, Brecon, Glamorgan, and Pembroke, produced 22,207,176 tons in the year 1881, the output of 473 collieries, compared with 21,354,112 tons in 1880. The details of output of each district and the number of collieries in 1881 are as follows, the increase over the previous year amounting to 853,064 tons

28		Coal raised in	the paris	sh of Aberdare		
15	041	99	**	Llanwonno		
29		99	22	Ystradyfodwg	4,271,200	
26		99	99	Gelligaer	1,445,162	
91		Other returns		******	6,722,112	
- Toronto						To
89		Total of Glam	organshi	re	*********	15,987,
5		Breck	nockshir	e		102,
8						79
47				ire		625
24				е		5,412,
					-	
-		Total of South	Wales			22.207.

shire area. The London and North-Western carried 1,114,112 tons shire area. The London and North-Western carried 1,114,112 ions, 907,061 tons being carried to stations on their own system, and 207,051 tons to other company's lines. The Midland Railway carried from South Wales 680,007 tons, and the Great Northern 26,655 tons, received from another railway.

The Taff Vale Railway in 1881 carried in various directions 7,278,617 tons, compared with 6,894,403 tons in 1880. The details of distribution in both years are as under:—

TAFF VALE RAILWAY.

Railway Distribution. 1880. 1881.

| Railway Distribution. | 1880. | | To Cardiff and Penarth Junction. | Tons | 5,955,457 | Sold, retail | 356,691 | To Quaker's Yard Junction | 135,419 | 4006 6,298,818 To Mountain Ash Junction
Conveyed over by other railways.....
To Brecon and Merthyr Junction 4,006 345,757 97,010 To Walnut Tree Bridge Junction ...... 63 510

Total ..... Of the shipments of coal, coke, and patent fuel, 2,705,688 tons were sent coastwise from Welsh ports; 7,839,383 tons of the value of 3,827,303*l*, being sent to foreign countries.

NORTH WALES.—The coal fields of Flintshire and Denbighshire produced 2,670,597 tons, the output of the Flintshire pits being 835,850 tons, and those of Denbighshire 1,834,747 tons. In the distribution the Great Western carried out of the district 1,138,497 tons,

and the Lendon and North-Western 312,030 tons.

THE COAL FIELDS OF SCOTLAND.—The production in 1881 amounted to 20,623,055 tons, compared with 19,174,886 tons in 1830.

of which quantity 641,167 were conveyed to Burnt Island for ship-ment. The Caledonian Railway conveyed 7,021,966 tons, and the Glasgow and South-Western Railway 2,328,156 tons, 1,201,645 tons

	Description.	Quantities Exported. Tons—	1880	Declared Value.		Quantities Exported. Tons—	1001	Value.
į	Coals	17,891,181		£7,837,314		18,759,991	***	£8,285,352
	Coke					414,762		
	Patent fuel	385,993	***	197,360	***	412,310	***	214,845

Total ... 18,719,971 ... £8,372,933 ... 19,587,063 ... £8,785,950
The quantities of coal received coastwise in the United Kingdom in 1881 amounted to 11,925,873 [tons, compared with 11,495,896 tons in 1880, showing an increase of 429,977 tons.
Having fully considered the distribution of the coal production for the year 1881, some interest will be found in the annexed summary, showing the movement of coals in the year 1881 and previous year by railway and canal:—

•	y Iniiway and Contai.		
	DISTRIBUTION OF COAL IN	1880 AND 1	1881.
	RAILWAYS AND CANALS.	Tons-1880.	Tons-1881.
	Great Western	9,606,578	10,481,153
	Great Northern		3,489,905
	North-Eastern	13,245,618	13,888,696
	North Staffordshire	1,251,495	
	Midland	13,283,910	
	London and North-Western		11,490,706
	Manchester, Sheffield, and Lancashire	3,390,114	5,662,788
	Lancashire and Yorkshire	5,872,082	
	Taff Vale	6,894,403	
	Maryport and Carlisle		249,368
	Furness	36,965	
	Caledonian	6,142,584	7,021,966
	North British	5,753,779	6,260,624
	Glasgow and South-Western	2,493,192	
	Staffordshire and Worcestershire	218,829	219,505
	Birmingham	4,386,248	4,416,337
	Gloucester and Berkeley	45,161	41,769
	Bridgewater	827,000	783,000
	Trent and Mersey	288,321	281,530
	Severn Navigation		59,633
	Leeds and Liverpool		
	Foreign countries		
	Coastwise		
	We may add, in concluding our fourth	and last noti	ice of the Mine

ral Statistics, that the Keeper of Mining Records in his introduction to the volume for 1881, acknowledges the valuable assistance he has received from all connected with the mineral industries of the United Kingdom,

#### THE TIN TRADE.

			*		
	July 3	1,	Aug. 3	1,	Aug. 31,
Straits and Australian, spotTons	7,133		6,196		7,119
landing	200		170		429
Straits, afloat	-	*****	100		25
Australian affoat	740	*****	855		1,481
Banca, on warrants	1,286		938		805
Australian tin in Holland	48				_
Stocks in America, including quan-					
tity afloat	2,840	*****	3,830		3,222
Total	14,436		14,731		15,566
Deliveries during month in London	1.387		1.325		1.278
Holland	415	******	569	*****	718
metal.	1.009		1 004		1,996
	Straits and Australian, spotTons Straits, afloat "landing  Australian aflost	Straits and Australian, spot	tistics of Tin:—	tistics of Tin:— July 21, Aug. 3.  Straits and Australian, spot	1882.   1882

Shipments during the month from Straits to London 100 tons, from Australia London 475 tons, from Straits to America 1175 tons, from Australia to America 10 tons. Banca in Trading Company's hands and affoat, 2872 tons.

Messrs. EBELING and HAVELAAR (Rotterdam, Aug. 31) write:—
We have had a very dull market for tin throughout this month, and values have receded about 3 fls. since the opening. Transactions have been limited in the extreme, the decline bringing out but few sellers, whilst consumers have again been supplying their wants in London at prices considerably below ours. The rise in the London Bank rate and an exceptionally heavy shipment from the Straits to America (1170 tons during the first forbight), seem to have greatly impressed London holders, who have at times shown an unmistakeable disposition to get rid of stocks, even at the already reduced rates. There is a slightly steadier feeling at the close, the comparatively high price paid in the Billiton also rendering holders still more difficult to deal with. The dermand for Banca has been limited, which may also be said of the quantity offering. The price gradually gave way from 64½ fls. to 61½ fls., there being now buyers at 62 fls. The demand for Büliton has been slow, consumers covering their requirements with Straits and Australian on much more favourable terms. We declined from 64½ fls. to 64½ fls. but since the result of the Batavia sale has become known, 61 fl. has been freely bid. Forward deliveries have been very sparingly offered, the same fetching fully ½ fl, above spot parcels. From 11,000 to 12,000 peculs Billiton offered in public sale at Batavia on Aug. 29 fetched the average price of 70 50 costing to sell here about 62½ fl. by steamer. Next sale comprising the same quantity will be held on Oct. 31.

The position of Banca tin in Holland on Aug. 21, according to the Official Returns of the Dutch Trading Company, was—

Returns of the Dutch Trading Company, w	788-					
Account of the Parish and Parish and	1882.		1831.		1880.	
Import in AugustSlabs	8,986	*****	11,190		3,363	
Total eight months	112,801		96,758		83,912	
Deliveries in August			14,693		7,096	
Total eight months			104,303			
Stock second hand			25,749		40,019	
Unsold Stock	81,919		61,735	*****	50,815	
Total stock	111,962		87,484	-	90,834	ì
AfloatPeculs	5,000		5,950		6,600	
Statement of Billiton:-	-,		-,			
Import in AugustSlabs	9,700		7,300		22,950	
Total eight months	90,451					
Deliveries in August	5,841	******	8,266		12,965	
Total eight months			77,408		74,980	
Stock		*****	44,956			
AfloatPeculs					15,000	
Quotation, Aug. 31-Banca	62 fl		541/4 11	******	5# fl.	
Billiton	61 36 11				59 11.	
Whose combined veturns of Ranca and B	illiton f	or 189	2. com	hared	with th	n

415,805
These combined returns of Banca and Billiton 61½ fl..... 54 fl.... 54 fl... 53 fl.

413,428
2,130
331,535
86,391
tion of Banca of 12l. 10a parton

nn increase of the stock second-nature viscous in features of the quality of 631 tons; an increase of the total stock of 1107 tons; an advance of the quality of 631 tons; an increase of the total stock of 1107 tons; an advance of the quality of 631 tons; an increase of 632 tons; an increase of 631 tons; an increase .. 496 ... 603 ...1066 ... ..... 2934 ... 4067 ... 5802

# THE COPPER TRADE.

mounted to 20,623,055 tons, compared with 19,174,886 tons in 1830. The eastern and western district producing as follows, the returns for 880 being added for comparison:

Eastern District.

Year. No. of Collieries.

Tons.

No. of Collier

# Registration of New Companies.

The following joint-stoccompanies have been duly registered -

The following joint-stoccompanies have been duly registered—
The Albion Newspaper Company (Limited).—Capital 30,000l., in shares of 10l. The business of printers, newspaper proprietors, publishers, &c. The subscribers are—J. H. Pulesten, M.P., 7, Dean's Yard, 20; Lord Folkestone, 8, Ennismore Gardens, 1; J. White, Warrington, 1; H. C. Reynolds, Liverpool, 1; E. Taylor, Birkenhead, 1; J. H. Farmer, Liverpool, 1; B. H. Grindley, Liverpool, 400.

BORLAND PATENT INJECTOR COMPANY (Limited).—Capital 6000l., in shares of 50l. Acquiring and working in the United States certain patents for injectors for steam-engines. The subscribers are—J. Varey, Manchester, 5; R. Dawson, Manchester, 1; J. Wood, Stockport, 10; J. Hood, Withington, 5; E. R. Lowe, Manchester, 2; T. R. Withecomb, Manchester, 2; F. Norton, Manchester, 2.

THE NITEATE RAILWAYS COMPANY (Limited).—Capital 1,200,000l., in shares of 100l. Acquiring, taking over, and working the business of the National Nitrate Railways of Peru, and any other railways. The subscribers (who take one share each are—J. S. Coleman, 12, Tokenhouse-yard; W. B. Hawkins, 39, Lombard-street; W. Macandrew, Colchester; W. A. Michael, 12, Tokenhouse-yard; M. R. Pryor, 12, Great Winchester-street; A. H. Campbell, Cornhill Chambers; A. J. Eilen, 57%, Old Broad-street.

Lanefoot Coal Company (Limited).—Capital 3000l., in shares of 10l. To acquire for 630l. the plant, buildings, and leases of coal mines, the goodwill, machinery, trade utensils, stock-in-trade, book and other debts generally, all the assets belonging to the Lanefoot Colliery Company, situate at Lanefoot, near Littleborough, Lancashire, and to carry on the various trades of coal miners and merchants, coke, fire and other clay manufacturers and brickmakers. The subscribers (who take one share each) are—J. B. Bampford, Todmorton, surveyor; J. Clegg, Rochdale, surveyor; T. Share, Little The subscribers (who take one share each) are—J. B. Bampford, Todmorton, surveyor; J. Clegg, Rochdale, surveyor; T. Share, Littleborough, farmer; A. Taylor, Smallbridge, coal miner; J. Taylor, Littleborough, coal miner; J. Ashworth, Littleborough, builder; A. Chadwick, Littleborough, widow.

THE MINERAL PROPERTIES ASSOCIATION (Limited).—Capital 2000/Lin shares of J. To buy and sell mineral properties vights

THE MINERAL PROPERTIES ASSOCIATION (Limited).—Capital 2000l., in shares of 1l. To buy and sell mineral properties, rights, and concessiors, in all parts of the world. To obtain by purchase or otherwise any lands, minerals, or mining properties, or rights of way, water or timber, &c., for the purpose of carrying on the business of a mining, smelting, and refining company in all branches. The subscribers (who take one share each) are—G. Nicholls, 62, Portnall-road; W. H. Foy, 22, Larcam-street; Mr. F. Dormer, Balham; C. C. Baker, Clapton; T. M. Johnson, 1l, Queen Victoriastreet; A. Scott, Langham Hotel; J. H. Nicholls, Kensal Green.

THE ROSS HILL GOLD COMPANY (Limited).—Capital 75,000l., in shares of 1002. To acquire the gold mines and reefs situate on

Balham; C. C. Baker, Clapton; T. M. Johnson, 11, Queen Victoriastreet; A. Scott, Langham Hotel; J. H. Nicholls, Kensal Green.

THE ROSS HILL GOLD COMPANY (Limited)—Capital 75,000/., in shares of 100%. To acquire the gold mines and reefs situate on Ross Hill, at Spitz Kopp, in the Transvaal, South Africa, with their appurtenances and other real estates comprised in an agreement made between F. S. McHattie, J. Peel, and C. K. White of the one part, and G. Newington of the other. To open, work, and fully develope this or any other property of the company, and carry on all operations connected with gold mining, quartz crushing, &c. The subscribers are—W. H. Warchmidt, 14, St. Mary Axe, merchant, 10; F. G. Stewart, East India United Service Club, retired colonel, 10; J. S. Cooke, Gray's Inn, C.E., 1; R. Pinkney, 18, Bread-street Hill, merchant, 1; A. J. Macdonald, 2, Suffolk-lane, merchant, 1; J. H. Anderson, Sydenham Hill, merchant, 1; J. C. Mounsey, 7, Laurence Pountney Hill, merchant, 1. Any shareholder being the possessor of two fully paid-up shares is eligible for a director. The number of the latter must not exceed six or be less than three.

THE NORTH LONDON FEEHOLD LAND AND HOUSE COMPANY (Limited)—Capital 500,000%, in shares of 10%. To purchase divers properties and carry on the business of Messrs. Hempstead Brothers, of Finsbury-park and elsewhere. The subscribers are—T. Leman, Nottingham, 100; W. H. Durrant, [Dulwich, 100; W. Harris, Oldstreet, 6; G. H. Schofield, Bounds Green-road, 5; W. King, Charteris-road, 5.

BARON LEIBIG'S MALTO-LEGUME, COCOA, AND CHOCOLATE WORKS (Limited)—Capital, 50,000%, in shares of 2%. To purchase, sell, and manufacture articles of food, beverage, and general consumption. The subscribers (who take one share each) are—O. Stein, 728, Rood-lane; A. Pobuda, Stutgard; W. A. Bagholt, Barnsbury; A. W. Kerly, 14, Great Winchester-street; A. E. Ross, Cowper's-court; E. C. Fisher, 15, Carlton-grove.

THE VICTORIA COAL AND COKE COMPANY (Limited).—Capital, 100,00%, in shares of 10%. The pur

the produce thereof. Acquiring the interest of the present lessees in the Allen and Burnhouse Gill Mine, situate in the township of Ridley, Northumberland, and fully working and developing said mine. The subscribers (who take one share each) are—J. A. Jameson, Frankham, brick manufacturer; J. Kent, Hexham, cart proprietor; M. Atkin, 8, Rye Hill, tailor; J. Snowball, Hexham, builder; J. Guthrie, Hexham, painter; W. Lear, Hexham, timber merchant; J. W. Jameson, Hexham, master of the workhouse.

S. H. Briggyes, A. N. Company (Limited) — Capital, 20,0001.

S. H. BECLES AND COMPANY (Limited). — Capital 20,000*l.*, in shares of 1*l*. To acquire and continue a drysalter's and chemical business established at 6 and 8, Lime-street-square, E.C. The sub-

business established at 6 and 8, Lime-street-square, E.C. The subscribers are—S. H. Becles, 6 and 8, Lime-street-square, 1000; H. P. Moor, 6 and 8, Lime-street-square, 1000; H. P. Moor, 6 and 8, Lime-street-square, 1000; A. d'Arcy H. Becles, 5a, Cornwall Buildings, 1; R. B. F. Becles, 7, Cambridge-terrace, 1; M. S. Becles, 7, Cambridge-terrace, 1; G. T. Dodson, 12, Smith-street, 1; W. J. Breach, Homerton, 1.

ANGLO-NORWEGIAN GUANO PHOSPHATE ISINGLASS COMPANY (Limited).—Capital 100,000, in shares of 1l. To carry on a business n conjunction with certain patents and concessions. The subscribers (who take one share each) are—H. Watkins, Stamford-hill; T. Williams, 110, Cannon-street; J. E. Walker, 6, Belgrave Mansions; G. Seagrave, Chelsea; J. E. Purdon, Chelsea; A. F. Baillie, 3, Walterton-road; T. Camps, Dashwood House.

THE TILBURY DISTRICT FREEHOLD BRICK WORKS (Limited),—Capital 30,0001.

shares of 10%. To acquire 332 acres in Essex, and

carry on a brick-making business, &c. 'The subscribers are—E. A. Grosvenor, 79, Curtain-road, 10; H. Ferguson, Kingston-on-Thames, 10; D. Ferguson, 19, Gloster-road, 25; J. C. Weld, Balcomb, 22; A. Beattie, 49, Porchester-terrace, 25; W. F. Ward, 10, Bedford-row, 10; H. C. Weld, Enfield, 10. Weld, Enfield, 10,

10; H. C. Weld, Enfield, 10,

THE GOLD AMALGAMATING COMPANY (Limited). — Capital 150,000l., in shares of 1l. To purchase or otherwise acquire certain patents granted to T. A. Readwin for ore grinding and amalgamating machines, and any improvements and renewals thereof, and to acquire and work the business lately carried on by the Greenwich Ore Reduction Company (Limited). The subscribers (who take one share each) are—F. W. Brown, 30, Wood-street; A. H. Anderson, Upper Norwood; A. Madge, Burry Port; T. A. Readwin, 8, Bloomsbury-square; S. Pixley, 27, Old Broad-street; W. Whitehead, Brixton; T. C. Molloy, 3, Elm-court.

THE ABERDUNA LEAD MINES (Limited)—Capital, 27, 2004.

ton; T. C. Molloy, 3, Elm-court.

THE ABERDUNA LEAD MINES (Limited).—Capital 37,500L, in shares of 1L 10s. The acquisition by purchase or otherwise of land, hereditaments, and rights of mining, quarrying, and searching for lead, lead ore, calamine, and other minerals and substances in and upon lands situated in the parish of Llanferras and elsewhere in the counties of Denbigh and Flint, for the purpose of carrying on mining and quarrying operations, making marketable and disposing of lead, lead ore, calamine, and other minerals and substances. The subscribers (who take five shares each) are—E. J. Bartlett, 30, Great St. Helen's, stock and share dealer; L. E. Bartlett, Stamford Hill, no occupation; J. W. Worfolk, Holywell, mine manager; F. Rudall, Victoria Station, telegraph engineer; J. S. Eastes, 17, Water-lane, shipbroker: T. F. Gamble. Ealing. gentleman: J. Wood. Stoke no occupation; J. W. Worlolk, Holywell, mine manager; F. Rudall, Victoria Station, telegraph engineer; J. S. Eastes, 17, Water-lane, shipbroker; T. F. Gamble, Ealing, gentleman; J. Wood, Stoke Newington, secretary. The following are the first directors—Messrs. Rudall, Eastes, Gamble, Major J. C. Addison, and, after allotment, E. J. Bartlett joins the number; qualification 100 shares. (The above-named properties were lately in the possession of the Denbighshire Consolidated Mines (Limited), and which company is in lignidation).

HOME MINES TRUST.—At the annual meeting of the shareholders held at their offices, Old Jewry, on Friday, a dividend of 15 per cent. for the year was declared.

PRINCE OF WALES SLATE QUARRY, CARNARYONSHIRE.—The machinery for sinking the shaft in the new vein is erected, and the loose rubbish is being removed preparatory to sinking in the rock.

WEST PHOBNIX MINE.—What is unquestionably a very fine lode is WEST FIGNIX MINE.—What is unquestionably a very fine fode is being intersected at this mine at the 30 fathom level, which has been driven east of engine-shaft some 50 fathoms, going towards the boundary of Phœnix United. At this point the lode has been cut through and found to be upwards of 12 ft. wide, consisting of capels, peach, &c., and assaying about 20 lbs. of tin to the ton. The engine-shaft is down 14 fathoms below the 30, and there can be but little downt as down in a permanent and valuable probut little doubt as depth is attained a permanent and valuable property will be opened up: 20 lb. stuff is not rich, but thousands of tons of this quality and less are monthly stamped in Cornwall.

A NEW GAS .- At a meeting of the Liverpool Workhouse Committec on Thursday, attention was drawn to the formation of a company in Liverpool for the manufacture of a new species of gas from atoms of iron metals and various chemicals, and it was stated that in all or iron metals and various chemicals, and it was stated that in all probability application would be made to the committee for permission to use it on a large scale at the workhouse, the company, of course, paying the expenses.—The Vestry Clerk said he knew nothing of the company.—Mr. Hewitson said he understood experiments had been made at Bootle, in the presence of Mr. Whitley, M.P., and other gentlemen of position.—The Vestry Clerk: What about the price !—Mr. Hewitson: They can produce good gas for is res 1000. other gentiemen of position.—In a vestly clear, that about the price?—Mr. Hewitson: They can produce good gas for 1s. per 1000 cubic feet.—Some members of the committee deprecated any experiments with the new gas until it could be pronounced a success. It was stated, however, that a formal application would be made by

Mr. Henry Spain, the official liquidator of the Avonside Engine Company announces the payment of a dividend at the rate of 5s. Sd. in 1t., on and after the 30th inst., upon the claims allowed by the Court.

A petition for the winding-up of the North Wingfield Colliery Company is to be heard on Sept. 13.

The opening of the International Mineral Exhibition which was to have been held in May last at Madrid, has now been definitely fixed for April 1 next year. The last day for receiving exhibits will be Feb. 15.

COPPER MINE WANTED.—Must be reasonable in price, and bear investigation. One situated in the United Kingdom pre-Address, "Copper," care of Messrs. Masterman, Smith, and Co., 58,

Lombard-street, E.C. WANTED, a PAIR of COMPOUND HORIZONTAL ENGINES W ANLED, a PAIR of COMPOUND HORIZONTAL ENGINES about 120-H.P. nominal, suitable for a rolling mill.

Apply by letter, stating lowest price, size of cylinders, and length of stroke, also mention the space they occupy, to Mr. A. J. OWEN, 118, Cannon-street, E.C.

WANTED, an EXPERIENCED MANAGER for an important COPPER MINE in the South of Spain. To an energetic and thoroughly capable man good encouragement will be given.

Address, "Espana," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

WANTED, a ROTARY STEAM ENGINE of from 30 to 36 inch cylinder, for Pumping and Stamping.

Address, "S.," West Briton Office, Truro.

SULPHUR ORE.

WANTED, THREE HUNDRED to FOUR HUNDRED TONS
PER MONTH of GOOD QUALITY SULPHUR ORE. State price and quantity per month, delivered on the Mersey; also send copy of analysis of ore if there be one; cupreous ore not objected to Address, "Mundic," MINING JOURNAL Office, 26, Fleet-street, E.C.

GOLD MINES FOR SALE IN SPAIN ON MOST LIBERAL TERMS. The quartz is exceedingly rich, and can be worked at little expense by adit. First-rate reports.

For particulars, address "Gold," care of Messrs. Masterman, Smith, and Co., 58, Lombard-street, E.C.

TO SHAREBROKERS AND OTHERS. OFFERS WANTED for SHARES in WEST PHENIX (Costbook) TIN AND COPPER MINE, near Liskeard; also for SHARES in NEW WHEAL PEEVOR (Cost-book) TIN MINE, Redruth. Calls will be all Address, "T. R.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

SHARES FOR SALE :- 50 fully paid-up CHEAP BLOCK OF A CHEAP BLOCK OF SHAKES FOR SALE: —50 1411y paid-up & £1 Shares in the GREAT WHEAL WORTHY; a splendld undertaking—40 EAST BOTALLACK; now quoted at 22s. 6d. per share—9 fully paid £1 Shares in the BRITISH SILVER-LEAD MINE; a sound undertaking—3 Shares in the NATIONAL STANDARD LAND MORTGAGE COMPANY; £5 paid on each, and dividends of 5 per cent. paid. The lot to be sold for £60 to close a trust. Address, H. Wilson, Turf Herald Office, Hull.

TO INVESTORS OF £10 To £1000. POR SALE, FOREIGN BONDS, safe as English Consols, paying good interest, and giving large bonuses of £20 up to £6000 bi-monthly. For price and particulars, apply to MEYBICK and Co., 51, Bedford-row, London.

MR. W. B. COBB, STOCK AND SHARE DEALER, 29, BISHOPSGATE-STREET, LONDON, E.C.

E NGLISH CAPITALIST wishing a CORRECT REPORT on the SILVER MINES of COLORADO will do well to apply to—Capt. DANIEL ROBERTS, Georgetown, Colorado.

MR. W. TREGELLAS, 40, BISHOPSGATE STREET WITHIN, E.C.,
Deals in all descriptions of STOCKS and SHARES at close market prices.

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WE RECOMMEND, amongst others, for an immediate large rise, the shares of—

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TRESAVEAN.

OLD SHEPHERDS.

HOME MINES TRUST.

All fully paid.

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The recommendations in the present Circular will, no doubt, be equally correct.

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THE RIGHT OF WORKING FOR PETROLEUM. FOSSIL MEAL (Kieselguhr), IS SOLD by-ADOLF BORCHERS, Hanover.

SILVER-LEAD MINE.

PRIVATE CAPITALISTS and PROMOTERS of PUBLIC COMPANIES are INVITED to ARRANGE for the FURTHER DEVELOPMENT of a SILVER-LEAD MINE possessing indications of the most satisfactory character. Returns of ores can be made immediately after the erection of dressing machinery, and the holding, which is liberal, will be transferred on unusually favourable conditions.

avourable conditions.

The mine can be inspected and full particulars obtained on application to 'H.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

SILVER-LEAD AND ANTIMONY MINES IN

SILVER-LEAD AND ANTIMONY MINES IN NORTH CORNWALL.

THE ANTICIPATED RISE in the PRICE OF LEAD makes the present a FAVOURABLE TIME TO PURCHASE or arrange for the development by a few private capitalists, or by a public company to be formed, of a valuable SILVER-LEAD and ANTIMONY SETT in North Cornwall. The terms of the lease are favourable, and the transfer of it can be made on conditions highly satisfactory to the purchaser.

All information can be had upon application to Mr. W. PAYNTER, jun., Commission Agent and General Merchant, Wadebridge, Cornwall.

OR SALE:—
ONE 50 inch and ONE 40 inch PUMPING ENGINES, with BOILERS
and FITTINGS.
ONE 22 inch ROTARY ENGINE.
ONE 124 inch HORIZONTAL ENGINE, with CAPSTAN and HAULING
MACHINE attached.

All the above Engines are in first-class condition.
Several WATER WHEELS, from 20 to 60 feet diameter. STAMPS' AXLES and a large quantity of SECONDHAND MINING MATERIALS.

Apply to—

J. AND H. PEARCE, TAVY IRONWORKS, TAVISTOCK.

TOBESOLD:—

250 Shares WEST WYE VALLEY LEAD COMPANY (Limited) at 1s. each.

£30 Seven per Cent. Debenture HULTAFALL MINING CO.—offers wanted.

16 GROG WINION LEAD Shares at 15s. each.

200 Shares LADYWELL MINING COMPANY (Limited) at 1s. each.

Apply to WILLIAM W. BAKER, Small-street-court, Bristol.

SCIENCE AND ART DEPARTMENT. NORMAL SCHOOL OF SCIENCE, AND ROYAL SCHOOL OF MINES, SOUTH KENSINGTON, AND JERMYN STREET. The SESSION 1882-83 WILL OPEN ON OCTOBER 2ND, 1882.

The Prospectus may be obtained from the Registrar, Normal School of Science South Kensington, S.W.

ROSSA GRANDE GOLD MINING COMPANY
(LIMITED).
Shareholders in the above company who wish THEIR 1NTEREST
PROTECTED are requested to communicate with—
Mr. WILLIAMS, Serra de Cocaes, Minas Geraes Brazil

NEW TERRAS TIN MINING COMPANY
(LIMITED).
Those who are desirous of INVESTING HEREIN should apply at
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M. E. PRITCHARD, a practical Quarryman and experienced Manager, is OPEN to INSPECT SLATE QUARRIES, and report the same on the most reasonable terms. Will also undertake

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Upwards of Sixteen Years with one of the Largest Firms in the Ore Trade.

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nications for Mr. BAILEY should be mailed to-

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# NEWFOUNDLAND MINERAL LANDS. TO CAPITALISTS.

THE UNDERSIGNED would inform CAPITALISTS that they hold over ONE HUNDRED LICENCES for LAND in the various MINERAL SECTIONS of the Island, and are prepared to TREAT FOR A PORTION OF THE SAME, with a view of thoroughly prospecting such licences, and eventually working those upon which COPPER, LEAD, or other Mineral'may be found. Each license comprises three square miles. Apply to—

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LUCRATIVE AGENCY — FOR TOWN OR COUNTRY.—No travelling required, and but little trouble. Will not interfere with any other business or employment. Goods first-class, and commission liberal

Address, "Warehouse," 58, Cambridge-street, Birmingham.

WANTED, COMMISSION HOUSES, ENGINEERS, GENERAL WANTED, COMMISSION HOUSES, ENGINEERS, GENERAL MILL AND COLLIERY FURNISHERS. Exceptionally good terms as wholesale, district, and export agents in unrepresented centres throughout the United Kingdom, Continent, and the Colonies. MORGAN'S CELEBRATED IMPROVED BOLLER COMPOSITION, manufactured on approved scientific principles for preventing incrustation and neutralising corrosive acids in feedwater.

"An invaluable article at a very low price."

ANALYST'S REPORT (Extract).—"I am convinced it will be useful in preventing and removing incrustation without any injurious action on the metal."

Apply to the Patentee and Manufacturer,
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DEADY FOR INCHANT DELIVEDY

READY FOR INSTANT DELIVERY.		
NEW.		
TWO 12 in. steam cylinder, 8 in. water cylinder, 18 in.		- 1
stroke, Colebrook's patent, each £75	0	0
ONE 3 in. ×2 in, brass lined, Colebrook's patent 18		0
ONE 3 in. ×11 in., Colebrook's patent	0	0
ONE 7 in. × 5 in. Tangye Special, with Condenser 44	0	0
ONE Warner's improved treble barrel Horizontal Col-		
liery Force Pump for horse power, 4 in. gun metal rams 54	0	0
TWO 54 in. cylinder 9 in. stroke Donkey Pump, 3 in.		
in brass cased ram, each 22	0	0
ONE No. 1 Pulsometer and foot valve	0	0
ONE No. 3 ,, 24	0	0
SECONDHAND.		
ONE Patent Universal, by Hayward Tyler and Co.,		
5 in. × 3 in 20	0	0
ONE ditto ditto 6 in. × 5 in 30	0	0
ONE ditto ditto 12 in. × 5 in 60	0	0

ONE Horizontal Donkey, by Davey and Co., 8 in. stroke, 7 10 ONE 4 in.

ONE 4 in.

ONE Holman's Double Force, 5 in. cylinders......

TWO 4½ in. diameter plunger force, with gun metal plungers 2 ft. long, 4½ in. diameter, glands and barrels, brass bushed, valves and seatings, gun metal, &c., each...

ONE Vertical Donkey, 15 in. steam cylinder, 10 in. water cylinder, 16 in. stroke, brass lined ram, single action.....

ONE Vertical Donkey, 15 in. steam cylinder, \$\frac{1}{2}\$ in. weter cylinder.

Full particulars on application to the owner CHARLES D. PHILLIPS, MACHINERY REGISTER OFFICES, NEWPORT, MON.

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At the same time, for those who prefer an investment with no risk at all, & S and upwards are solicited with decreased emoluments, but still very large profits from the same enterprise, and in this case no money whatever will be required for several weeks, until all preliminaries are arranged, for the project to be practically set in motion.

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Now Ready TABLE OF THE ORDER OF SUPERPOSITION OF BRITISH ROCKS, showing the SYSTEMS, FORMATIONS, GROUP OF STRATA, CHARACTERISTIC ROCKS, PREVALENT MINE.

RALS, and TYPICAL FOSSILS.

By T. A. READWIN, F.G.S., M.M.S., &c.

Published by Messrs Spon, Charing Cross. Price One Shilling THIRD EDITION

Just published.

THE NORTH WALES COAL FIELDS

Being a series of Diagrams showing the Depth, Thickness, and Local Names of the Seams in the principal Collieries of the various districts, with Index, Geo. sogical Map, and horisontal sections across the Rusbon, Brymbo, Buckley, and Mostyn districts.

By JOHN BATES GREGORY at d JESSE PRICE, of Hope Station, near Mold, Flintshire.

Price: Mounted on holland, coloured and vanished, and fixed on mahogany rollers, 30s. each; or in book form, 12.79, mounted and coloured, 25s. each May be obtained, by order, of all Bookselles or direct from the MINING JOURNAL Office, 26, Fleet-street, London, E.C., upon remittance of Post Office Order for the amount.

In the High Court of Justice-Chancery Division.

BATTEN v. THE WEDGEWOOD COAL AND IRON COMPANY (LIMITED), NORTH STAFFORDSHIRE

WEDGEWOOD, BRINDLEY FORD, AND LANE ENDS

COLLIERIES,
Situate near New Chapel, in the Parish of Wolstanton, in the County of Stafford.

THIS HIGHLY VALUABLE LEASEHOLD PROPERTY TO BE SOLD, BY AUCTION (with the approbation of the Judge to whose Court this cause is attached), by Mr. JOSEPH COOKSEY, of the firm of Messrs JOSEPH COOKSEY and Sow, the person appointed to sell the same, at the North Stafford Hotel, Stoke-upon-Trent, on Wednesday, the 6th day of September, 1862, at Three for Four o'clock in the afternoon, in One Lot, and as a going concern, subject to conditions.

The above-named Collieries comprise a mineral area of 296A, 2R, 2P, or thereshouts.

sours
The Minerals include portions of all the well-known seams of Coal and Iron
one in the North Staffordshire coal district below and including the Brow
(ine Ironstone.

Mine Ironstone.

The Burnwood Coal and Ironstone Seams are now in operation.
The Plant consists of several pairs of Pit Shafts, with commodious Colliery erections, efficient Machinery, Tramways, Locomotive Railway sidings, and branches, and two Locomotive Engines, which, together with the Pit Trams and ther Colliery Stocks, Office Furniture, Implements, and Stores, will be included in the sale.

in the sale.

The Biddulph Valley Branch of the North Staffordshire Railway passes through
the property, and the Collieries are connected therewith by sidings and branch
railways.

the property, and the Collieries are connected interwith by stangs and manifold railways.

The Black Bull Passenger Station is near to the Brindley Ford Colliery within the northern boundary of the property.

Particulars, conditions of sale and plans, and any further information, may be obtained of Mr. J. Vernox Musgrave, Solicitor, Albert Buildings, Queen Victoria-street, London, E.C.; Messrs. Byidhard, Gibson, and Co., Solicitors, 21, Leadenhall-street, London, E.C.; Mr. CLARRNGE HARCOURT, Solicitor, 13, Moorgate-street, London, E.C.; and Mr. FREDERICK BERTRAM SMART, Chartered Accountant, 53, Cannon-street, London, E.C.; of the Auctioneers, Paradise-street, West Bromwich; at the Wedgewood Colliery Offices, New Chapel, near Stoke-upon-Trent; and at the place of sale.

In the High Court of Justice.-Chancery Division. Sir CHARLES HALI

THE GRAND DUCHESS SILVER-LEAD AND BARYTES MINING COMPANY (LIMITED). HIGHLY IMPORTANT SALE.

TO BE SOLD, BY PRIVATE TREATY, pursuant to an Order of the High Court of Justice, Chancery Division, the VALUABLE MINE, with BUILDINGS, PLANT, and MACHINERY, known as

THE CYSTANOG GRAND DUCHESS MINE Situated in the parish of Llangunnor, near the town of Carmarthen, with the right to work a considerable extent of property, including the farms of Penlan Cystanog and Allt Cystanog, for the term of 21 years from 1st August, 1882.

For further particulars and to treat, apply to Mr. John M. Winter, Chartered Accountant, 16, Market-street, Newcastle-upon-Tyne; or to Mr. David Thomas Surveyor and Auctioneer, 3, Blue-street, Carmarthen.

TO COLLIERY PROPRIETORS, CONTRACTORS, AND OTHERS MPORTANT SALE OF VALUABLE PLANT AND MACHINERY, LOOSI MATERIALS, and other effects at the Coppa Colliery, situate within half a mile from the Padeswood Station, on the Chester and Denbigh Railway, and about three miles from Mold, Flintshire.

M ESSRS. CHURTON, ELPHICK, AND CO. have been favoured with instructions from the Coppa Cannel Company (who have worked out the mines) TO SELL, BY AUCTION, on Friday, September 3th, 1882, commencing at Eleven o'clock A.M. punctually, the WHOLE of the

mencing at Eleven o'clock a.m. punctually, the WHOLE of the VALUABLE PLANT AND MACHINERY,

Comprising four horizontal PUMPING and WINDING ENGINES; two vertical ditto; five egg-end and Cornish BOILERS; two vertical ditto; three Tangve and other pumps; double and single Camerons, with 10 and 7 in. cylinders: steam and hand crab winches; one 8 in. lift complete, 70 yards long; 8, 7, and 6 in. pumps; steam pipes; iron saw bench and circular saws; siding rails; points and crossings; wrought and east iron plates; one 20 ton weighing machine (Hinds' patent), by Kitchen; cart weighing machine, by Pooley and Son, to weigh 3 tons; pit head gearing; six dozen pit tubs; quantity of iron piping from 1 in. to 6 in.; smiths' anvils, vice, and tools: stocks and dies; boring rods; lifting jacks; hemp props; chains; quantity of timber; joiners' benches; timber or boiler carriage; horse geers; and other miscellaneous effects.

Catalogues may be obtained at the place of sale; the Black Lion Hotel, Mold or from the Auctioneers, Messrs. Chukton, Elphick, Roberts, and Richardson Chester.

# NORTH WALES.

SALE OF A GOOD STEAM AND HOUSE COAL COLLIERY. MESSRS. CHURTON, ELPHICK, AND CO., WILL SELL, BY MONDAY, the 11th September, 1822, at Two for Three P.M. punctually, subject to conditions to be then produced, all that very valuable COLLIERY, known as THE FLINT COLLIERY,

THE FLINT COLLIERY,
About half-a-mile from the town of Flint, with branch railway and sidings to
the main line of the Chester and Holyhead Railway, in full work, and now raising from the Brassey Thick coal, and 5 ft. seams, about 500 tons of good steam
and house coals per week, which may be largely increased; in addition there is
the Cannel Beam partially worked, and the Lower Four Feet Seam intact. The
situation of the colliery is exceptionally favourable for disposal of its produce, it
being the nearest colliery to the town of Flint. There is a good local land sale,
and, while it is in close proximity to several large manufacturing works, it is on
equality with other North Wales Collieries as regards rates to Birkenhead and
other markets.

country with other Novel water Connerses as regards rates to birkenhead and other markets.

The coal mines under a surface area of about \$20 acres are held under leases and take-notes for terms having upwards of 18 years to run at minimum rents, amounting together to £360 per annum, recoupable out of royalties, which are moderate; exemption from all claims for surface trespass on 9 a. 3 R. 24 p., comprising the site of the colliery and branch railway, has been purchased.

There are three shafts all geared for winding and fitted with three high-pressure winding-engines, and one 100-horse power pumping-engine, with seven steam-boilers.

The above engines, boilers, and all the plant and machinery of the colliery, as a going concern, are included in the sale.

For further particulars, apply to Mr. J. E. EDWARDS, City Treasurer, the Auctioneers, or WALKER, SMITH, and WAY, Solicitors, all of Chester. The leases and take-notes may be inspected at the offices of the latter.

# DENBIGHSHIRE.

TO BRICK, SANITARY PIPE, AND TERRA COTTA MANUFACTURERS, INVESTORS, AND OTHERS.

TO BE SOLD, pursuant to an order of the High Court of Justice, Ohe SOUD, pursuant to an order of the High Court of Sustee,
Ohancery Division, made in an action, Yanghan z. Mason, with the approbation of Mr. JUSTICE KAY, acting for the Vice-Chancellor Hall, at the
Queen's Hotel, Chester, in the county of Chester, by Mr. THOMAS WHITFIELD,
on Thursday, the 14th day of September, 1882, at Four o'clock in the afternoon
precisely, the valuable leasehold hereditaments and premises called the
GARTH BRICK AND TILE WORKS,

GARTH BRICK AND TILE WORKS,

36 P., or thereabouts, of most valuable clay and ganister stone of first-rate quality together with the extensive buildings, erections, machinery and fixtures thereon, consisting of brick making and drying sheds, modelling rooms, kilns, offices, stables, &c., and the tenants fixtures, of which a full description will be given in a schedule to be produced at the time of sale. Together with the powers and authorities for winning, working, getting, procuring, and raising the ironstone, coal, and clay in, under, over, and upon the said premises for the unexpired term of 30 years, from the 29th September, 1873, at the rent of 9d, per ton for the coal, 5d, per ton for ironstone, is, a thousand for draining tiles up to 4 in. in diameter.

For all other articles 5 per cent. on the sale price at the works on a dead rent of £122 per annum, in case the rent and royalties before stated shall not make up this amount.

The output of these works can by the erection of additional machinery and

or 2122 per amount. It case the rest and royates before stated shall not make up this amount.

The output of these works can by the erection of additional machinery and kilns be considerably increased without adding perceptibly to the dead expenses, and the supply of the raw material is practically inexhaustible.

For permission to view the premises apply at the offices of the Auctioneer, Willow-etreet, Oswestry; Mr. W. H. HILL, Land Surveyor, Oswestry; and to Mr. G. D. HARRISON, Solicitor, Welshpool.

Particulars and conditions of sale may be obtained gratis of Mesers. GILL and ARCHER, Solicitors, Liverpool; of Mesers. BARRELL, RODWAY, and BARRELL, Solicitors, Liverpool; of Mesers. BARRELL, RODWAY, and BARRELL, Solicitors, Liverpool; of Mesers. CHESTER and Co., Solicitors, Gill. and Gratient of the Sersen Seadence and Woode, Solicitors, 2. Chancery-lane; of the Auctioneer at the place of sale; and of Mesers. GERGORY, ROWCLEFES, and Co., 1, Bedford-row, London, Solicitors for the Plaintiff.

ROBT. W. PEAKE, Chief Clerk.

Dated this 9th day of August, 1882.

Dated this 9th day of August, 1882.

SECOND-HAND, BUT EQUAL TO NEW:—
STEAM BOILERS.—Three first-class Boilers, 30 ft. by 7 ft., two flues, Galloway tubes in, and fittings, four years old, insured at 75 lbs. pressure. Will be sold cheep.
BOILERS.—Two Boilers, 25 ft. by 7 ft., two flues. Been working at 65 lbs. Price on rails, £130 each.
Other sizes of Boilers in stock, in excellent condition, 25 ft. by 7 ft., 24 ft. by 7 ft., 26 ft. by 5 ft., 15 ft. by 5 ft., and 12 ft. by 5 ft. Bafe for 65 and 60 lbs. pressure. Very cheap.
PUMPING ENGINES.—Beam and Horizontal. Diameters of cylinders, 100 in., 90 in., 65 in., 60 in., and 35 in. Very cheap.
WINDING ENGINES.—Beam and Horizontal. Diameters of cylinders, 100 in., 90 in., 65 in., 60 in., and 35 in. Very cheap.

H. HELLEWELL AND CO., 4, NORTH CORRIDOR. ROYAL EXCHANGE, MANCHESTER.

CORNWALL.

IN LIQUIDATION,

VALUABLE TIN MINE AND CHINA CLAYWORK PLANT, MACHINERY, MATERIALS, AND EFFECTS.

PLANT, MACHINELY, MATERIALS, AND EFFECTS.

TESSES. PHILLP AND CO. respectfully announce instructions from the Liquidators TO SELL, BY PUBLIC AUCTION, on Thursday, September 14th, 182, at Two P.M., at the Fortescue (Stannagwan) Native Tin, Copper, Silver, and Arsenic Company (Limited), in the Parish of St. Btepheriali-Branwell, and about four miles from 5t. Austell, in One Lot, and if not so lold then afterwards in several lots, ALL THOSE SETTS under which the operations of the said company have been carried on, embracing an extensive area and several lodes and deposits of China Clay, together with the MINTING AND CLAYWORK PLANT, MACHINERY, MATERIALS, AND effects belonging thereto, and being within and upon the said Misea and

MINING AND CLAYWORK PLANT, MACHINERY, MATERIALS, And effects belonging thereto, and being within and upon the said Mines and Works, including—

1 24 in. horizontal cylinder ROTARY ENGINE, with two fly wheels; 16 heads of STAMPS, frames, and passes; 1 8 ton BOILER; 1 22 in. cylinder ENGINE, large fly wheel and working gear; 1 10 ton BOILER; also a large quantity of other machinery and materials in general use in mines; and several tone of China Clay.

On the above Mines and Works a large amount has been expended in development, and they may be considered as going concerns, being equipped with two valuable engines and necessary machinery.

To view, application should be made to Capt. PRYOR, on the Mines; and for printed or further particulars to the Liquidator, Davin Goueray, Esq., Grampound-road; Messrs. Stacpoole and Sox, Solicitors, Pinner's Hall, Old Broadstreet, London; or the Auctioners, at 8t. Austell and Bodmin.

Conveyances will leave Grampound-road and the Queen's Head Hotel, St. Austell, after the arrival of the mid-day trains.

# MONTGOMERYSHIRE. SALE OF A MOST VALUABLE MINING PROPERTY, known as THE EAST VAN MINE,

Bituate adjoining to the celebrated Van Mines, and within 3 miles of the town of Llanidlees; 1 mile of Garth Road station, on the Van Railway; 8 miles of Caersws, and 7 miles of Moat Lane Junction, on the Cambrian Railways, in the County of Montgomery.

MR. LLOYD MORGAN has received instructions TO SELL the ABOVE MINING PROPERTY, comprising 180 acres TO

R. LLOYD MORGAN has received instructions TO SELL the
MADVE MINING PROPERTY, comprising 180 acres or thereabouts,
with the ENGINE-HOUSES, SMITHY, OARPENTERS' SHOP, OFFICE,
THREE COTTAGES, POWDER-MAGAZINE, and other out-buildings, BY
AUCTION, at the Trewythen Arms Hotel, Liandiloes, on Wednesday, the 20th
September, 1882, at Three o'clock, P.M.
The Plant and Machinery, as per inventory, the whole of which is in excel
lent order, and recently fitted up regardless of cost, will have to be taken to by
the purchaser at a valuation in the usual way.

Particulars and conditions of each, with inventory of Plant and Machinery.

Particulars and conditions of sale, with inventory of Plant and Machinery, and orders to view, may be had by applying to Messrs, TRINDERS and CURTIS HAYWARD, Solicitors, 14, St. Helen's-place, Bishopsgate Within, London; to Messrs, Shrell, Sox, and GERENIP, 1, George-street, Mansion House, London; or the Auctioneer, Great Oak-street, Lianidloes. Llanidloes, 16th August, 1882.

FURNESS DISTRICT - NORTH LANCASHIRE.

IRON ORE ROYALTY TO LET. TRON ORE ROYALTY TO LET.

OBE LET, a VALUABLE IRON ORE ROYALTY within the Manor of BROUGHTON-IN-FURNESS, belonging to J. Sawrey Cookson, Eq. Iron ore has already been discovered in several places; and although the royalty has not been worked to any greate textent, it is believed that large and valuable deposits of Hematic Ore exist, and could be easily obtained at a very moderate outlay.

The royalty is situate within easy access of the Broughton-in-Furness Railway Station.

Station, Further particulars can be obtained on application to the undersigned, who will receive offers in writing up to the 21st day of September next. THOS. BUTLER, Solicitor, Broughton-in-Furness.

POR SALE, EKER COPPERWORKS, situated very near a Railway Station, 22 kilometers from the seaport Drammen, in Norway, with their MINES, SMELTING HOUSE, other premises, and MACHINERY. Yearly produce of the Mines, 10,000 to 15,000 tons of pyrites containing 2½ to 3 per cent. of copper. For particulars, apply to EMIL DYBWAD, Christiania, Norway.

POR SALE, a SULPHUR MINE of the value of about £4,000,000 sterling, situate in Italy, in the Province of FORLI (Romagna.) For full particulars apply to Mr. NATALE DI GNO ADUCCI, Forli. Correspond by preference in the French language. The owner desires to negociate directly with the intending purchaser.

The principal sulphur mines in the Romagna are only five in number, including the above, which is the best. A company with large capital at its disposal could negociate, whilst purchasing the above, for the others also, and thus secure the monopoly of the sulphur of the Romagna, which is reputed to be the best in all Italy.

FOR SALE,—TWO SECOND-HAND ENGINES, equal to new, 26 in. cylinders, 4 ft. stroke, mounted on strong cast-iron diagonal frames, and fitted with condensers and reversing gear; suitable for Winding, Air-compressing, or Driving Stamps, and will BE SOLD CHEAP.

Also, a NEW 12 in. HORIZONTAL ENGINE, and ONE 5 in. and ONE 6 in. SECOND-HAND DONKEY ENGINES

Every description of MINING PLANT always on sale.
Apply to FRANCIS DINGEY, Engineer and Ironfounder, Truro
Cornwall, where the above may be seen.

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AUSTRALIA.

FOR SALE, ONE HUNDRED AND SIXTY ACRES OF
FREEHOLD LAND, close to Railway Station, in QUEENSLAND, and traversed by one 4 feet and one 18 inch lode of Copper
Sulphide in gold country (see Queensland Government Gazette for
1880—Boolboonda Gold Field, pp. 1214 and 1333).
Crown Grant, Plan, and Report by eminent Scotch Mining Engineer
(Dr. Robertson, of Renfrew) can be seen at the Queensland National
Bank, 50, Old Broad-street, London, where price and terms can also
be learnt; or from N. BARTLEY, Brisbane, Queensland, Agent for
Sale of Mining Properties, and holder of the 1879 Sydney International and five other Medals for the best collection (4000) of Australian ores. There is no royalty or tax on the above land except the local road

rates, 32s. per annum.

# THE

A LLEN STEAM ENGINE GOVERNOR developes the utmost Power, gives Uniformity of Speed under varying loads, and Economises Fuel. Economises Fuel.

ALSO

PEET'S PATENT VALVE TAP, for Steam, Water, and Gas, from

1 inch upwards. Simple, durable, double seats, full way, and all parts interchangeable.

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RAILS for SIDINGS, TRAMWAYS, &c., with all fittings complete. All sections, from 10 to 80 lbs. per yard Shippers enquiries promptly attended to.
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E NGINES, BOILERS, &c., FOR SAL
FIRST-CLASS 50-inch cylinder PUMPING ENGINE
ditto 24-inch "ROTARY ENGINE
CALCINER, &c. FOR SALE: -

Apply to Capt. NICHOLLS, Camborne.

ON SALE, MINING PLANT not required for the purpose it was intended for :-TWO PAIRS of 16-inch HORIZONTAL WINDING ENGINES,

ONE 12-horse PORTABLE ENGINE, with winding gear. ONE 20-horse ditto ditto
Apply to Thos. Johnson, 72, Dicconson-street, Wigan.

POR SALE, a 30 H.P. PORTABLE STEAM ENGINE; with link-motion reversing gear, has drum and gearing complete for nd pumping.
A 14 H.P. FORTABLE WINDING and PUMPING ENGINE.
Also a 8 H.P. FORTABLE HOISTING ENGINE.

Apply to-BARROWS AND STEWART, ENGINEERS, BANBURY.

STEPHEN BARKER, NICKEL AND NICKEL SILVER WORKS, OOZELL STREET NORTH, BIRMINGHAM.

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